

NOTES BY THE EDITOR.

CURRENTS OF LAKE ONTARIO.

The last number of the "Transactions of the Canadian Institute" gives an account of the work done by the Provincial Board of Health and the Toronto City Council with reference to the currents of Lake Ontario in order to ascertain with what degree of safety the sewage may be deposited in the Lake. "The apparatus used for ascertaining the direction and velocity of the currents was a float or drag made of two cross brackets of wood covered with linen, a rope of from 20 to 60 feet attached, to suit the required depth, and a tin float surmounted by a flag and numbered. The floats were made of different sizes, the arm pieces of the brackets varying from $2\frac{1}{2}$ to 5 feet in length, and the canvas from 27 to 54 inches in breadth. These drags required to be nicely adjusted by hanging weights to them to keep them in position, and it sometimes occurred that we would lose a float and all by weighting it a little too heavily."

By means of such floats as these the movements of the water at depths of from 15 to 30 feet were determined during July, August, September, October, 1891, in that portion of Lake Ontario near Toronto; frequent observations were made of the position of the float and flag in the course of its drift hour by hour during the daytime, so that the rate and direction could be determined at every point of its course. Observations were made in high winds as well as in light winds. The general direction of the currents was parallel to the coast line, that is, either from northeast when northeast, east, and southeast winds prevailed or from southwest when south, southwest, and west winds prevailed. On seven occasions when the wind was from the north and northwest the resulting currents were two from the southwest, three from the northeast, and two from the northwest, so that north and northwest winds were not attended by any prevailing type of current. Similarly a southwest wind would

produce a current from the southwest in regions to the south of the island, while a current to the southeast prevailed west of the island. The undercurrent was contrary to the wind more frequently in Humber Bay than to the south of the island. Close inshore the current was sometimes opposite to that farther out. On July 17 the wind was fresh from the east; an empty tin can was driven before the wind on the tops of the waves, but a float 4 feet below the surface and another 30 feet below the surface both went dead against the wind.

The additional experience of fishermen shows that at Niagara, on the south shore of the lake opposite to Toronto, when an easterly wind prevails there is a strong undercurrent from the west, and in general when the surface waters driven by the wind are piled against the beach the head of water thus maintained forces a portion of the lower water back as an undercurrent. This undercurrent from the west, which is so strongly marked at the southwestern shore of Lake Ontario, was found to prevail for a considerable distance toward the middle of the lake. The current, directly due to the inflow of the Niagara River, has a temperature originally of 69° or 70° , while at a depth of 400 feet the lake water has a temperature of 39.5° . It is this latter cold, deep water that cools the surface flow before it reaches the intake of the water-works at Toronto.

The investigation satisfactorily showed that the lake currents are caused by the wind, that they change direction as the wind changes, with, of course, a slight lagging behind. The prevailing winds are from the west on the average of the whole year, but they happened to be from the east during the period of this investigation. It was concluded that if the outlet of the sewage pipes was located a mile from the shore of the island, then the water received at the intake, which is less than half a mile from the shore and 70 feet below the surface, would be entirely free from danger of contamination.

METEOROLOGICAL TABLES.

Meteorological record of voluntary and other co-operating observers,
September, 1893.

Stations.	Temperature. (Fahrenheit.)			Precip'n	Stations.	Temperature. (Fahrenheit.)			Precip'n
	Max.	Min.	Mean			Max.	Min.	Mean	
Alabama.	o	o	o	Ins.	Arizona.	o	o	o	Ins.
Alco	94	57	76.6	....	Antelope Valley †	....	....	....	0.03
Bermuda *†	91	58	74.9	3.57	Henson *†	98	55	78.5	0.12
Birmingham †	94 ^d	58 ^d	78.0 ^d	5.67	Bisbee †	94*	54	70.3	1.71
Brenton †	100	55	76.8	3.45	Buckeye †	104	59	79.0	2.00
Camden *†	92	60	75.8	3.00	Calabasas †	93	46	71.3	1.76
Carrollton *†	87	54	72.5	4.44	Casa Grande *†	105	65	87.1	0.00
Citronelle †	91	65	77.6	6.63	Crittenden †	100*	43	73.2	0.97
Claiborne Landing †	....	....	....	....	Dragoon Summit *†	98	60	80.4	1.13
Clanton †	91	54	73.4	2.66	Dudleyville †	98	51	77.1	0.33
Cordova †	....	....	....	....	Farleys Camp	91	56	77.2	0.00
Decatur *†	92	42	69.8	4.61	Flagstaff *†	78	33	58.9	0.40
Demopolis †	....	....	....	....	Florence †	101	60	80.8	1.47
Elba *†	93	67	74.8	5.03	Fort Apache	89	39	64.6	2.65
Eufaula †	98	60	79.8	5.09	Fort Bowles	93	49	73.6	1.06
Euhuia †	....	....	....	....	Fort Grant	95	48	72.2	3.87
Evergreen †	96	58	76.4	3.37	Fort Huachuca	92	48	70.0	0.00
Florence a†	....	....	....	....	Fort Mohave	109	54	81.4	0.00
Florence b†	93	44	70.8	4.88	Gila Bend b*†	98	60	77.2	0.14
Fort Deposit †	93	58	76.9	4.01	Holbrook †	90	40	65.8	0.95
Gadsden †	....	....	....	....	Maricopa *	108	70	87.8	2.05
Greensboro *†	91	55	73.7	3.12	Mount Huachua †	89	50	71.0	2.33
Healing Springs †	95	50	77.3	5.53	Natural Bridge †	....	....	....	2.03
Highland Home †	92	56	76.0	3.95	Oracle †	89	52	72.2	1.26
Livingston †	96	54	74.6	6.61	Oro	....	....	....	1.26
Lynn a†	....	....	....	....	Pantano *	97	62	78.9	0.00
Lynn b *†	94	60	74.8	2.67	Payson *†	86	40	64.4	3.41
Maple Grove †	94*	49	74.9	4.26	Pearl †	98	56	79.4	0.35
Marion †	92	56	75.0	4.03	Red Rock *†	105	65	86.2	0.40
Mount Willing †	93	60	77.4	4.35	Reymert †	96	55	76.6	1.32
Newbern †	90	44	74.7	2.60	Rye †	....	....	....	3.73
Newburg *†	97	44	71.6	5.14	St. Helena R.H. *†	92	54	73.4	1.03
Newton †	94	57	74.8	6.27	San Carlos	102	46	75.4	2.56
Opelika *†	92	58	75.7	3.63	San Simon *†	103	50	79.5	0.92
Oxanna *†	88	50	71.4	4.13	Show Low	....	....	....	1.25
Pine Apple †	94	52	75.2	4.71	Signal †	99	53	77.4	1.25
Pushmataha *†	90	58	72.5	5.04	Teviston	....	....	....	1.20
Rock Mills *	90	53	75.0	1.19	Texas Hill *†	105	66	85.3	0.00
Seimsa †	....	....	....	....	Ute Hill *†	....	....	....	0.00
Starlington	91	59	75.0	5.30	Tucson a†	99	55	79.4	0.95
Sturdevant †	....	....	....	....	Tucson b *†	98	60	81.2	0.40
Talladega a†	....	....	....	....	Walnut Ranch †	88	54	69.2	2.82
Talladega b	90	62	79.1	2.48	Whipple Barracks	88	34	59.9	0.57
Tallassee Falls †	....	....	....	....	Wilgus †	....	....	....	2.75
Thomassville †	94	56	75.5	6.80	Willcox *†	92	58	74.4	0.93
Tuscaloosa †	....	....	....	....	Yuma *†	100	69	83.4	0.30
Tuscaloosa a*†	94	42	71.0	4.02	Arkansas.	....	....	....	0.71
Tuscumbia a*†	93	48	72.6	4.71	Arkadelphia †	....	....	....	0.71
Union Springs a*†	92	56	76.6	2.75	Arkansas City †	....	....	....	3.25
Union Springs b†	94	55	75.2	2.84	Ashdown †	102	46	73.4	2.36
Uniontown †	92	58	77.1	2.93	Bee Branch †	104	50d	75.4d	0.87
Valley Head †	92	42	69.4	4.01	Brinkley †	92	45	72.4	3.70
Warrior †	....	....	....	....	Camden †	....	....	....	2.63
Wilsonville †	....	....	....	....	Conway *†	95	50	73.2	4.25
	2.51				Corning †	94	37	70.5	5.13

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n	Stations.	Temperature. (Fahrenheit.)			Precip'n
	Max.	Min.	Mean			Max.	Min.	Mean	
Arkansas—Cont'd.	o	o	o	Ins.	Dallas *†	93	46	73.9	3.86
Dardanelle †	98	55	78.5	0.12	Dardanelle †	....	....	....	6.52
Fayetteville †	100	39	73.2	3.08	Forrest †	94	45	74.8	0.19
Forrest †	94	45	74.8	0.19	Guinea Landing †	....	....	....	3.50
Hamburg	93	48	73.2	0.91	Hamburg	....	....	....	2.40
Helena a†	94	48	72.6	7.18	Helena a†	....	....	....	1.25
Helena b†	94	48	72.6	6.10	Hot Springs	103	41	76.0	2.05
Hot Springs	103	34	76.0	....	Keesees Ferry †	102	30	72.6	4.03
Kirby †	99	43	74.5	1.47	Lonoke *†	94	47	75.2	1.47
Malvern †	96	46	74.0	0.97	Marcella †	....	....	....	8.27
Marshall †	....	....	....	....	Marshall †	....	....	....	7.00
Mount Nebo †	94	44	71.4	5.92	Mount Nebo †	....	....	....	5.92
New Gascony *†	97*	54*	73.4*	3.11	Newport a†	....	....	....	0.57
Newport a†	....	....	....	....	Newport b†	96	42	71.6	6.67
Newport c†	96	42	71.6	6.67	Osceola †	95	44	71.8	6.00
Ozark †	101	46	77.6	6.17	Pine Bluff	96	45	75.0	2.35
Pine Bluff	96	45	75.0	2.10	Prescott †	95	50	76.4	2.10
Rison †	101	48	76.7	2.96	Risonville †	101	44	74.6	7.08
Russellville †	....	....	....	....	Stuttgart †	93	45	72.6	3.66
Texarkanat †	100	50	72.5	1.93	Texarkanat †	100	52	77.5	1.93
Washington b†	99	49	76.4	2.45	Wiggs	....	....	....	1.93
Wiggs	....	....	....	....	Winslow *†	83	46	71.2	5.01
Winslow *†	....	....	....	....	Winslow *†	....	....	....	3.27
California—Cont'd.	o	o	o	Ins.	East Brother L. H.	....	....	....	....
Byron *†	92	50	65.0	0.00	California.	....	....	....	....
Caliente *†	100	50	68.3	0.00	Edmonton *†	83	34	52.0	1.79
Calistoga *†	88	46	64.3	0.85	Eldorado *†	92	49	65.5	1.14
Campo Seco	....	....	....	....	Elmira *†	94	50	66.6	0.76
Capitolia *†	75	48	62.5	0.57	El Peralto *†	87	31	54.5	1.51
Castroville *†	74	45	60.3	0.57	El Verano *†	85	45	63.4	0.92
Centerville *†	86	50	60.0	0.13	Emigrant Gap *†	79	30	53.4	1.20
Centerville *†	86	55	67.1	0.00	Esparto *†	97	52	72.0	0.02
Chino *†	88	50	65.0	0.00	Evergreen	....	....	....	0.02
Cisco *†	76	28	47.9	0.00	Exeter *†	97	62	71.3	0.00
Citrus *†	100	50	66.0	0.00	Fall Brook *†	90	52	64.6	0.06
Claremont †	94	44	64.6	0.00	Farmington *†	88	46	71.6	0.46
Cloverdale *†	84	45	67.2	2.07	Felton *†	90	40	63.7	0.40
Cloverdale *†	....	....	....	....	Fernando *†	94	44	64.7	0.00
Clovis *†	....	....	....	....	Florence *†	91	57	69.3	0.00
Folsom City a*†	90	52	69.4	0.51	Folsom City b*†	90	53	67.7	0.43
Folsom City b*†	90	53	67.7	0.43	French Corral	87	44	65.8	1.23
Fresno *†	95	54	69.9	0.00	Fresno *†	95	54	69.9	0.00
Galt *†	89	50	67.0	0.16	Galt *†	89	50	64.3	0.22
Georgetown †	86	40	61.6	2.06	Georgetown †	86	40	61.6	2.06
Gilroy *†	85	52	63.1	0.06	Gilroy *†	85	52	63.1	0.06

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean	
California—Cont'd.	o	o	o	Ins.	California—Cont'd.	o	o	o	Ins.
Girard *8	91	45	62.8	0.00	Point Pinos L. H.	o	o	o	o
Glen Ellen *8	86	40	62.2	0.93	Point Reyes L. H.	.....	.....	.....	0.30
Goshen *8	100	59	70.2	0.00	Point Sur L. H.	.....	.....	.....	0.23
Grass Valley a	.....	.....	1.64	.....	Pomona *8	92	45	59.2	.....
Guinda.	.....	.....	0.38	.....	Porterville a *8	101	52	72.6	0.12
Haywards *8	75	45	59.8	0.25	Port Los Angeles *8	73	59	66.6	0.00
Healdsburg *1	90	42	61.2	1.37	Poway *8	.....	50	61.6	0.05
Hollister *8	85	41	58.5	0.11	Puente *8	96	50	68.6	0.00
Hornbrook *8	99	40	60.9	0.80	Ravenna *8	93	49	67.8	0.00
Humboldt L. H.	.....	.....	3.13	Red Bluff *8	90	54	68.7	1.10	
Huron *8	98	49	65.8	0.00	Redding a *8	95	51	71.5	3.05
Hydeville†	76	40	57.0	2.54	Redding b *8	89	44	66.3	2.35
Independence†	90	39	65.2	T.	Redlands b *8	94	52	68.4	0.18
Indio *8	113	60	87.4	0.07	Repressa†	87	46	66.2	0.70
Ione *8	99	45	65.2	0.29	Rio Vista	90	52	67.2	0.14
Iowa Hill *1	80	44	62.9	1.81	Riverside a†	98	43	65.5	0.31
Jackson	83	40	59.4	1.34	Rocklin *8	92	45	70.2	0.64
Jolon	.....	.....	0.00	Roe Island L. H.	.....	.....	.....	0.05	
Julian†	89	37	60.5	0.03	Sacramento a	81	37	57.9	0.31
Keeler *8	86	48	70.4	T.	Sacramento b *8	88	53	65.0	0.00
Keene *8	95	42	62.6	0.14	Sacramento c *8	79	52	65.1	0.19
Kennedy Gold Mine *1	86	43	61.4	1.05	Salinas b *8	74	55	63.1	0.30
King City *8	88	46	61.7	T.	Salton *8	111	69	90.7	0.12
Kingsburg *8	98	52	72.6	0.00	San Ardo a *8	95	43	66.6	0.00
Knights Landing *8	92	44	67.6	0.15	San Ardo b†	97	35	63.4	0.00
Kono Tayee.	87	48	64.7	0.25	San Gabriel *8	92	54	69.0	0.00
Lagrange *8	95	47	69.8	0.57	Sanger Junction *8	103	52	72.9	0.00
Lathrop *8	87	51	67.0	0.10	San Jacinto†	96	40	65.9	0.51
Laurel *8	86	43	60.8	0.63	San Jose a *8	79	45	62.0	0.00
Lemoore a *8	98	50	69.1	0.03	San Jose b.	79	35	58.8	T.
Lick Observatory†	78	36	55.4	0.48	San Luis L. H.	.....	.....	.....	0.10
Lime Point L. H.	.....	.....	0.16	San Luis Obispo	.....	.....	.....	0.03	
Livermore *8	86	44	61.6	0.00	San Mateo *8	77	52	63.1	0.03
Livingston *8	92	52	72.3	0.00	San Miguel *8	90	47	63.7	0.00
Lodi	87	43	64.4	0.15	San Pedro *8	94	55	72.5	0.00
Long Beach *8	84	54	64.3	.....	Santa Ana *8	90	59	70.6	0.00
Los Angeles *8	90	52	67.3	0.00	Santa Barbara a	80	50	62.7	0.00
Los Banos *8	96	58	76.3	0.05	Santa Barbara b *8	92	50	66.0	0.00
Los Gatos a *8	86	50	66.0	0.23	Santa Barbara L. H.	.....	.....	.....	0.03
Los Gatos b	84	40	59.6	0.23	Santa Clara a *8	80	44	60.6	T.
Mammoth Tank *8	106	60	83.8	0.00	Santa Clara b†	93	41	66.4	0.12
Mare Island L. H.	.....	.....	0.26	Santa Cruz a *8	75	47	59.4	0.20	
Mariposa *8	92	46	65.0	0.32	Santa Cruz b†	81	39	60.8	0.00
Martinez *8	78	43	57.7	0.27	Santa Cruz L. H.	.....	.....	.....	0.18
Marysville a *8	92	45	64.0	0.00	Santa Margarita *8	95	50	68.6	0.00
Menlo Park *8	80	45	61.1	0.09	Santa Maria	80	37	58.0	0.00
Mered *8	95	48	68.1	0.07	Santa Monica *8	80	55	61.2	0.00
Middletown *1†	93	41	62.2	0.78	Santa Paula *8	80	52	64.2	0.00
Mills College	.....	.....	0.50	Santa Rossa *8	87	40	62.4	0.25	
Milton (near) *1	88	52	67.4	0.58	Selma *8	100	50	71.0	0.00
Modesto *8	93	60	73.4	0.00	Shasta Springs†	90	33	55.2	2.86
Mohave *8	94	48	69.2	0.00	Shingle Springs *8	81	42	57.6	0.85
Mokelumne Hill *3	50	62.8	1.63	Sierra *8	88	34	52.2	0.00	
Monson *8	96	54	71.8	0.00	Soledad *8	78	41	61.0	0.00
Montague *8	101	47	64.0	0.72	Sonoma *8	81	39	56.8	0.50
Monterey *8	76	44	55.3	0.12	South Vallejo *8	74	52	58.7	0.00
Monterey (Hotel del Monte) *8	.....	.....	0.50	Spadra *8	94	50	67.7	0.00	
Mount Glenwood *1	77	49	60.8	.....	Tehachapi a *8	86	46	64.7	0.13
Napa City a *8	91	57	70.2	0.05	Tehachapi b	87	30	58.1	0.00
Napa City b†	82	45	60.7	0.18	Tehama *8	91	51	72.2	0.02
National City *1†	84	49	65.1	0.00	Templeton *8	92	42	62.8	0.00
Needles a†	103	58	81.2	0.04	Towles *8	86	42	59.2	2.75
Nevada City †	83	35	57.2	1.71	Tracy *8	86	48	67.8	0.04
New Almaden *8	81	50	62.0	0.03	Traver *6	102	60	75.0	0.00
Newark *8	79	48	64.5	0.11	Trinidad L. H.	.....	.....	.....	3.15
Newcastle a†	87	44	64.4	0.02	Tropicö *8	86	52	66.1	0.00
Newcastle b *8	97	53	67.7	0.40	Truckee *8	82	24	50.6	1.22
Newhall *8	101	50	68.1	0.00	Tulare a *8	96	55	72.8	0.00
Newman *8	88	57	69.5	0.00	Tulare c	106	42	70.0	0.00
Niles *8	80	49	61.3	0.00	Turlock b *8	95	52	72.1	0.10
Nordhoff†	92	39	62.1	0.00	Ukiah f.	85	39	60.2	1.85
Norwalk *8	91	55	67.2	0.00	Upper Lake	93	37	61.8	0.18
Oakdale *4	92	44	64.5	0.28	Upper Mattole *1	94	47	59.8	3.09
Oakland a	74	50	61.8	0.03	Ventura *8	75	47	60.4	0.13
Oakland b *8	70	50	61.5	0.25	Vine *8	91	55	68.2	0.63
Ogilby *8	108	62	83.2	0.39	Volcano Springs *8	113	70	89.8	0.00
Ontario *8	94	57	75.1	T.	Walnut Creek	90	44	66.2	0.22
Orangevale†	97	45	66.3	1.71	West Butte*	90	68	70.5	0.00
Orland *8	100	52	76.2	0.91	Westley *8	95	52	69.1	0.00
Oroville a *8	94	58	71.2	0.92	Wheatland	94	45	66.6	0.46
Oroville b	94	60	77.2	0.00	Whittier *8	86	50	70.5	0.00
Pajaro *8	87	39	62.7	0.10	Williams a *8	95	50	68.5	0.19
Palermo f.	92	41	66.1	0.50	Willows a†	92	38	63.6	0.20
Palm Springs *8	110	62	85.0	0.10	Willows b *8	92	38	63.6	0.20
Pasadena	92	45	63.6	0.04	Winchester†	102	41	70.1	0.08
Paso Robles *8	90	45	62.6	0.00	Winters *8	90	58	72.4	0.00
Petaluma *8	88	47	62.1	0.12	Woodland *8	90	46	65.0	0.00
Piedras Blancas L.H.	.....	.....	0.10	Woodstock	.....	.....	.....	2.72	
Pigeon Point L. H.	.....	.....	0.12	Yerba Buena L. H.	.....	.....	.....	3.56	
Placerville a *8	88	42	54.8	1.40	Yreka†	95	32	57.6	1.12
Placerville b†	87	35	58.6	1.20	Yuba City *8	89	54	70.0	0.31
Pleasanton a *8	92	40	60.0	0.10	Colorado.	.....	.....	.....	2.22
Pleasanton b	84	36	59.6	0.00	District of Columbia.	.....	.....	.....	2.23
Pt. Año Nuevo L. H.	.....	.....	0.10	Dist'g Reserv'r *8	83	40	65.8	3.36	
Point Arena L. H.	.....	.....	1.74	Rec'g Reserv'r *8	82	41	66.0	3.18	
Point Bonita L. H.	.....	.....	0.38	West Washington†	88	39	67.3	3.92	
Point Conception L. H.	.....	.....	0.00	Florida.	.....	.....	.....	2.76	
Point Fermin L. H.	.....	.....	2.13	Akron†	95	36	62.8	0.38	
Point George L. H.	.....	.....	0.00	Alma†	66°	19°	41°	0.04	
Point Hueneme L. H.	.....	.....	0.00	Arboles	.....	0.32	.....	0.32	
Point Lobos	67	49	57.2	0.14	Avoca	.....	0.15	.....	0.15
Point Loma L. H.	.....	.....	0.00	Amelia†	93	68	78.2	4.90	
Point Montara L. H.	.....	.....	0.30	Beardstown†	.....	.....	.....	1.49	

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean			Max.	Min.	Mean	
Colorado—Cont'd.	o	o	o	Ins.	Colorado—Cont'd.	o	o	o	Ins.	Florida—Cont'd.	o	o	o	Ins.
Brandon	80	20	47.6	0.30	Brandon	84	50	68.4	0.23	Archer†	98	59	79.1	12.49
Breckenridge†	78	20	47.6	0.12	Breckenridge†	92	31	59.5	0.23	Avon Park *†	90	73	79.4	3.95
Brush.	84	50	68.4	0.00	Brush.	92	29	60.6	0.12	Bristol†	90	66	78.2	10.20
Byers *1	92	31	62.2	0.00	Byers *1	90	29	61.6	0.00	Clermont†	95	65	77.7	6.73
Canyon	92	31	62.2	0.00	Canyon	90	29	61.6	0.00	Eustis†	95	65	77.7	6.11
Castle Rock†	90	29	61.6	0.00	Castle Rock†	90	29	61.6	0.00	Federal Point†	92	62	76.8	2.29
Cheyenne Wells†	95	40	68.4	0.68	Cheyenne Wells†	90	26	60.4	0.18	Fort Meade†	90	63	77.9	7.56
Como (near)†	69	26	48.9	0.18	Como (near)†	97	33	64.6	0.12	Gainesville†				

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean	
Illinois—Cont'd.	o	o	o	In.	Iowa—Cont'd.	o	o	o	Ins.
Bloomington†	100 ¹	30 ¹	67.6	2.70 ^b	Ames (near) ^{*1}	100	30	67.7	1.86
Bushnell†	97	35	67.8	3.17	Audubon	94	25	63.6	1.48
Carlinville†	99	34	70.8	2.57	Belle Plaine†	92 ¹	26 ¹	65.7	1.96
Carlisle	.....	.....	4.35	.....	Blakeville ^{*1}	104	32	67.6	0.85
Cordova	94	37	65.7	4.70	Bonaparte† ¹	100	31	66.4	5.13
Dixon†	100 ¹	28	63.5	3.22	Carroll†	93	23	62.8	1.36
Dubois†	98	43	70.0	3.73	Cedar Falls†	99	26	64.2	1.75
East Peoria†	.....	.....	3.53	.....	Cedar Rapids†	90	33	64.8	2.85
Fort Sheridan†	93	34	62.8	3.62	Centerville†	95	34	65.9	4.20
Galva†	98	33	66.6	3.57	Charles City†	93	28	62.9	1.82
Golconda†	93	43	72.6	2.62	Clarinda† ¹	90	36	65.8	2.38
Greenville†	102	34	71.3	3.73	Clinton ¹	96	31	63.0	4.25
Griggsville†	100	37	70.2	1.37	College Springs	.....	3.29	.....	.....
Havana†	95	34	68.3	2.34	Corning b†	91	29	64.6	1.70
Hennepin†	102	31	66.2	1.91	Decorah†	92	26	60.5	2.08
Herrins Prairie ^{*1}	90	42	73.9	3.00	Delaware [*]	98	30	59.8	2.39
Jordan's Grove†	97	35	70.3	3.07	Des Moines (near)†	94	32	67.4	2.18
Kankakee†	90	38	65.6	1.60	Elkader†	100	28	62.6	1.48
Lagrange†	99	33	64.0	2.84	Ford Madison ^{*1}	93	40	60.2	4.88
Martinsville†	95	34	69.4	4.18	Fulton ^{*1}	96	30	64.9	2.04
Mascoutah ^{*6}	97	38	72.1	5.70	Galva†	95	25	64.6	1.48
Mattoon ¹	97	46	69.2	3.37	Glenwood†	102	34	71.4	1.35
Mount Carmel†	.....	.....	3.43	Grand Meadow ^{*1}	86	31	61.1	2.01	
Mount Pulaski	97	37	60.0	2.25	Greenfield† ¹	94	30	65.1	2.02
Muddy Valley ^{*3}	92 ¹	52 ^d	68.4 ^a	3.03	Grinnell† ^m	90	32	62.1	2.38
Olney a ^{*1}	96	36	71.5	3.95	Grundy Center ¹	94	26	62.5	1.50
Olney b ^{*1}	97	30	67.7	4.21	Iowa Falls†	94	26	62.6	1.44
Oregon†	95	30	65.8	1.59	Jefferson†	95	28	66.0	1.58
Oswego ¹	94	30	63.0	2.88	Kansas—Cont'd.	.....	.....	.....	.....
Ottawa ¹	99	32	64.6	2.29	Kansas—Cont'd.	.....	.....	.....	.....
Palestine† ¹	95	34	68.1	3.33	Manhattan ^{b1}	109	34	69.0	2.45
Pana† ¹	100	43	72.0	2.74	Mankato† ¹	97	33	69.9	2.00
Paris ¹	93 ^c	32 ^c	67.2 ^c	3.34	Marshallton	.....	.....	5.70	.....
Peoria a†	.....	.....	2.56	Medicine Lodge†	.....	.....	3.40	.....
Peoria b ¹	98	40	69.0	3.02	Minneapolis†	100	33	69.2	1.98
Philo† ¹	98	30	68.7	3.65	Morland†	96	30	68.6	2.00
Quincy†	.....	1.63	.....	Morton†	97	43	69.7	1.53	
Rantoul ^{*5}	94	44	68.6	4.38	Mount Hope ^{*1}	103	44	73.9	1.60
Riley†	94 ^e	33 ^e	62.8	4.18	Ness City†	99	50	74.2	2.04
Rockford ¹	92	30	62.6	2.82	Oberlin†	.....	.....	0.95	.....
Rushville†	100	36	70.2	2.96	Olathe†	101	36	70.5	3.48
Saint John ^{*3}	101	42	72.6	2.79	Osewego†	108	36	72.3	3.10
Streator†	94	32	66.6	3.00	Pauline	100	40	72.6	3.38
Sycamore ^{*1}	93	37	62.1	3.83	Phillipsburg†	98	32	73.1	2.50
Walnut†	99	33	67.5	3.38	Pleasant Dale ^{*1}	100	35	68.0	1.32
Warsaw†	.....	1.77	.....	Rome ^{*1}	106	45	73.5	2.56	
White Hall ^{*1}	99	31	66.2	1.21	Sedan ^{*1}	107	44	75.5	1.70
Winnebago† ¹	93	29	62.0	Sterling†	100	40	74.2	1.85	
Indiana.	.....	.....	.....	Syracuse†	90d	42d	67.0 ^d	1.70	
Angola ¹	95	31	65.0	2.47	Topeka ^{*3}	102	40	64.8	4.30
Ashboro†	95 ^e	34 ^e	68.0 ^e	4.20	Tribune†	98 ^e	34 ^e	67.2 ^e	1.50
Bedford	.....	.....	.....	Ulysses†	.....	.....	1.56	.....
Butlerville†	94	37	70.0	5.78	Wakefield ^{*1}	102	40	72.4	2.59
Cambridge City†	97 ^f	34 ^f	69.4 ^f	3.85	Wallace†	101	36	67.0	0.73
Columbia City ^{*1}	93	33	66.0	4.72	Wamego ^{*1}	104	40	70.6	2.91
Columbus ^{*3}	93	32	65.6	2.74	Washington† ¹	101	35	69.0	2.25
Connersville†	94	47	69.0	4.61	Yates Center†	106	.....	4.66	.....
Crawfordsville†	92	35	66.4	2.75	Kentucky.	.....	.....	.....	.....
Deagonia Springs ^{*6}	92	41	70.9	2.12	Bowling Green ^{*1}	92	41	66.4	2.74
Delphi†	94	30	64.0	3.29	Burnside†	.....	.....	2.57	.....
Farmland†	91	33	66.2	1.63	Carrollton ^{*1}	91	40	68.5	1.80
Franklin ^{*1}	93 ^d	39	67.4 ^d	3.48	Caddo ^{*1}	90	41	69.8	4.45
Hawpatch† ¹	92 ^d	34 ^d	64.3 ^d	Catlettsburg ^{*1}	91	43	68.1	4.45	
Huntingburg ^{*1}	92	45	67.1	4.35	Edgarton†	1.35	.....	4.55	.....
Jasper†	93	37	70.1	2.20	Eddyville†	.....	.....	4.55	.....
Jeffersonville†	90	42	66.6	3.16	Edmonton†	87	42	67.0	3.54
Kokomo†	94	34	65.3	2.54	Edmundton†	94	35	67.7	2.21
Laconia ¹	92	39	71.1	3.25	Eubank†	94	35	67.7	2.21
Lafayette†	98	31	67.9	2.74	Falmouth†	.....	.....	1.06	.....
Logansport ^b	.....	.....	2.70	Flemingsburg†	.....	.....	1.06	.....
Madison b ^{*5}	91	34	68.0	3.09	Franklin ^{*1}	94	49	71.4	4.02
Marengo ¹	92	46	71.4	3.88	Greendale ¹	91	42	68.3	2.68
Marion†	96	40	70.3	3.60	Greensburg ^{*1}	89	41	67.8	3.21
Markie†	95	35	68.8	2.45	Harrodsburg ^{*1}	96	35	68.0	2.31
Mauzy	88 ^c	29 ^c	63.8 ^c	3.40	Harrisburg†	.....	.....	3.54	.....
Mount Vernon†	92 ^k	34 ^k	68.8 ^k	2.47	Hastings†	.....	.....	3.54	.....
Abilene†	103	37	70.3	2.01	Hawkins ^{*1}	90	44	69.9	8.20
Achilles ^{*3}	100	35	62.1	0.92	Henderson†	100	31	67.0	1.06
Allison ^{*2}	94	37	66.2	1.50	Hillman†	101	31	67.0	1.06
Altoona ^{*1}	104	46	70.4	2.71	Hilliard†	102	31	67.0	1.06
Athchison†	100	36	70.2	4.14	Hinckley†	103	31	67.0	1.06
Beloit†	96	34	68.1	1.87	Holiday†	104	31	67.0	1.06
Bucklin†	.....	2.00	.....	Holmes†	105	31	67.0	1.06	
Cawker City ¹	96	38	69.8	2.10	Hopewell†	106	31	67.0	1.06
Colby†	96 ^e	41 ^e	66.7 ^e	0.94	Hudson ^{*1}	107	31	67.0	1.06
Coldwater†	104 ⁱ	43 ⁱ	69.9 ⁱ	3.05	Hyattsville†	108	31	67.0	1.06
Columbus†	103	40	72.4	5.99	Imperial ^{*1}	109	31	67.0	1.06
Cunningham† ¹	107	41	71.2	2.01	Indiantown ^{*1}	110	31	67.0	1.06
Downs ¹	.....	1.81	.....	Irvington ^{*1}	111	31	67.0	1.06	
Eldorado†	106	40	72.0	2.72	Isaacson ^{*1}	112	31	67.0	1.06
Elk City ¹	105	47	74.3	3.33	Jackman ^{*1}	113	31	67.0	1.06
Emporia ¹	98	42	70.9	3.25	Jackson ^{*1}	114	31	67.0	1.06
Eurekwood†	105	42	71.6	2.93	Jeanerette†	115	31	67.0	1.06
Fort Riley†	103	37	70.6	0.77	Jessup ^{*1}	116	31	67.0	1.06
Garden City†	97	38	67.4	1.79	Johnson ^{*1}	117	31	67.0	1.06
Gibson ¹	100	30	66.6	1.27	Jonesboro ^{*1}	118	31	67.0	1.06
Gove City ^{*1}	101	36	67.4	2.80	Jordan ^{*1}	119	31	67.0	1.06
Grenola ¹	101	45	76.2	1.95	Jordan ^{*1}	120	31	67.0	1.06
Grinnell ^{*3}	101	49	71.1	1.00	Kosciusko ^{*1}	121	31	67.0	1.06
Halstead ¹	98	38	68.8	1.43	Kosciusko ^{*1}	122	31	67.0	1.06
Horton†	97	37	69.8	3.40	La Fayette ¹	99	62	72.9	4.34
Hutchinson†	109	41	72.4	2.08	La Charles ¹	106d	54 ^d	80.4 ^d	0.00
Independence† ¹	109	44	73.2	2.17	La Providence ¹	103	53	74.2	2.24
Kellogg	107	42	75.3	2.52	Lawrence ¹	105	65	79.6	4.15
Kiowa†	105	43	73.4	3.73	Many†	99	55	77.4	2.70
La Crosse†	97	41	72.8	2.25	Matureppas ¹	98	58	79.0	6.87
Lakin†	105	29	65.6	2.20	Minden†	101	57	77.8	0.61
Lebo†	104	39	70.6	4.98	Monroe†	96	54	77.0	0.19
Leoti†	97	39	68.0	1.50	Natchitoches†	98	50	74.4	0.10
Macksville†	105	36	69.8	2.05	New Iberia ¹	92	64	79.3	7.08
McPherson†	102	39	71.0	3.46	Opelousas†	93	61	77.8	4.21
Algonia ¹	93	27	62.8	1.90	Oxford ¹	97	51	74.9	0.66
Gwendale ¹	103	53	83.8	1.19	Paincourtville ¹	95	61	77.7	10.50
Kemp†	107	51	79.3	4.05	Plaquemine ¹	95	65	79.8	7.17
Lehigh†	105	46	75.6	4.83	Roseland ¹	97	58	77.9	6.00
Purcell†	107	45	77.6	6.84	Schriever†	99	61	79.8	4.23
South McAlester†	102	47	74.2	7.37	Shell Beach ¹	94	64</		

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean	
Massachusetts—Con.	o	o	o	Ins.	Minnesota—Cont'd.	o	o	o	Ins.
South Dennis ¹	79	37	58.6	2.77	Leech Lake ¹	85	27	55.3	1.54
Springfield Arm'y.	79	38	59.0	2.53	Long Prairie ¹	85	16	59.4	1.28
Taunton b	79	28	58.1	2.02	Luverne ¹	94	28	60.8	2.61
Taunton c	78	33	57.2	2.37	Maple Plain	94	24	59.0	1.75
Taunton d ¹	82	35	58.5	1.51	Medford ¹	94	24	59.0	0.80
Turners Falls	75	37	56.5	1.42	Milan ¹	101	15	61.5	2.75
Wakefield ¹	79	39	57.5	1.79	Minneapolis ^a	90	28	60.5	2.75
Waltham			1.62		Minneapolis b ¹	92 ^a	29	60.6	
Webster			2.72		Minneapolis City ¹	88	24	59.6	1.31
Westboro ¹	79	35	57.6	1.86	Montevideo ¹	98	23	62.5	1.20
Williamstown ¹	74	33	55.7	4.46	Morris ¹	88	25	58.9	0.92
Winchendon ¹			2.40		New London	96	25	61.2	1.03
Winchester			2.07		New Ulm ¹	94	28	62.4	2.00
Winthrop	79	42	59.0	1.46	Ortonville ¹				0.17
Worcester b	77	38	57.0	1.98	Parke Rapids ¹	83	21	55.2	1.40
Michigan.					Pine River ¹	83	22	56.2	1.41
Adrian	96	27	62.8	1.50	Pokagon Falls ¹	87 ^a	20	52.5	1.27
Allegan	92	30	62.4	3.75	Redwood Falls ¹				1.34
Alma	87 ^b	24 ^b	55.8	2.50	Rolling Green ¹	90	25	59.7	0.90
Ann Arbor ¹	86	30	61.0	1.30	Royalton ¹	90	22	58.0	1.02
Arbela ²			53.5	1.92	Saint Charles ¹	92	18	59.3	1.84
Bear Lake	88	25	55.2	3.14	Saint Cloud ¹	94	21	59.0	0.81
Bellaire			56.6	3.96	Saint Olaf ¹	83	25	57.1	1.00
Benton Harbor	90	32	62.0	3.68	Saint Peter ¹	95	27	62.4	0.87
Berlin ¹	90	29	59.6	1.52	Sandy Lake Dam ¹	82 ^a	21	54.3	0.95
Berrien Springs ^a	94	38	63.2	4.48	Sault Center ¹	86	14	58.0	0.80
Berrien Springs b			4.81		Wabasha ¹	88	32	61.4	2.00
Birmingham ¹	86	30	58.6	1.20	Waconia ¹	97	28	60.5	2.29
Boon	83	21	54.2	3.15	Wadens ¹	90	27	63.3	1.14
Bronson	94	26	62.8	1.55	Warren	85	30	59.8	1.37
Brown City	85	30	58.6	1.48	Willmar ¹	95	20	59.5	1.37
Calumet	78	33	53.5	1.95	Winona ¹	92	30	64.0	2.30
Charlevoix	82	34	56.6	2.09	Mississippi.				
Cheboygan	86	25	54.6	2.46	Aberdeen ¹	94	44	70.6	7.15
Climax ¹	91	36	63.8	3.51	Agricultural Col'ge ¹	91	52	73.9	8.34
Clinton	94	26	62.0	1.16	Batesville ¹	92	46	71.5	8.27
Critchell Falls	84	25	53.5	0.25	Biloxi ¹	92	60	77.5	9.21
Evart	88 ^d	20 ^d	57.5 ^d	1.04	Briers	94	58	76.0	1.85
Fairview	89	31	61.0	1.04	Brookhaven ¹	99	53	73.0	3.71
Fitchburg	88	22	60.2	1.72	Canton ¹	90	54	73.8	2.82
Flint	89	23	59.2	0.74	Clarksville ¹	95	47	74.0	5.37
Gaylord	83	23	55.0	3.58	Columbus ¹				5.03
Glenwood	82 ^e	28 ^e	57.2 ^e	1.73	Corinth ¹	94	49	73.9	5.52
Grand Rapids	88	32	61.4	3.27	Crystal Springs ¹	98	53	75.9	2.99
Grape	89	32	63.0	1.26	Duck Hill ¹	92	49	72.8	5.22
Grayling	89	19	56.2	2.55	Enterprise ¹	92	48	72.3	4.26
Hanover	86	32	62.0	2.05	Fayette ¹	91	54	75.9	4.34
Harbor Springs	82	26	56.8	2.49	French Camps ¹	88 ^a	49 ^b	69.5 ^b	8.77
Harrisville	80	31	56.1	3.15	Greenville a	89 ^a	52 ^a	73 ^a	2.67
Hart	75	25	54.5	2.30	Greenville b ¹	96	48	75.2	2.71
Hastings	84	32	60.1	3.39	Hattiesburg ¹	92	58	75.8	4.20
Hayes	88	32	50.0	2.11	Hazlehurst ¹	96	53	75.8	4.20
Howell	91 ^f	21 ^f	58.5 ^f	1.95	Hernando ¹	92	49	73.8	4.35
Jeddo ¹	89	32	59.6	1.16	Holy Springs ¹	92	46	73.8	4.35
Kalamazoo	89	34	63.3	3.47	Itta Bena ¹	95	52	75.2	2.11
Lansing ¹	87	27	59.8	2.34	Jackson ¹	94	56	75.3	4.21
Lathrop ¹	82	31	53.3	1.35	Kosciusko ¹	91	52	74.4	4.92
Lewiston	86	29	57.1	3.70	Lake ¹	90	52	74.8	6.05
Madison	91	28	61.8	1.34	Logtown ¹	92	61	77.4	10.98
Marshall ¹	89	29	60.9	3.95	Louisville ¹	95	49	73.0	5.97
Mayville	88	32	60.4	1.99	Macon ¹	94	41	70.0	4.70
Mio	88	26	57.1	1.77	Moss Point ¹	94	63	78.8	4.70
Mottville	97	30	63.3	3.23	Natchez ¹	93	57	76.8	4.88
North Marshall	88	27	60.0	2.19	Okolona ¹	93	49	72.7	4.88
Ovid	85	30	59.0	1.85	Pontotoc ¹	94	49	72.8	4.85
Paris	85	19	56.2	2.08	Port Gibson ¹	96	49	72.8	4.85
Parkville			3.45		Portage ¹	94	49	72.8	4.85
Rawsonville ¹	89	32	62.1	1.05	Portage ¹	94	49	72.8	4.85
Rockland	89	27	56.4	1.55	Portage ¹	94	48	72.8	4.85
Saint Ignace	84	30	54.6	3.02	St. Louis ¹	90	52	69.4	3.50
Sand Beach	86	34	59.6	2.05	Sacoxie				
Stanton	87	25	58.5	2.80	Sedalia				
Thornville ¹	87	31	60.8	1.06	Shelbyina				
Vandalia	89	35	62.4	3.24	Steelville ¹				
Washington	89	27	61.2	1.38	Sublett ¹				
Ypsilanti	87	27	60.0	1.68	Round Springs				
Minnesota.					Charles ¹				
Ada ¹	92	18	58.6	0.76	Saint Joseph ¹				
Albert Lea ¹	93	26	60.1	1.46	Saint Louis a				
Alexandria ¹			2.20		Saint Paul ¹				
Alexandria b ¹	84	22	54.6	1.55	Saint Paul ¹				
Barrett ¹	95 ^h	26	61.4	4.47	Saint Paul ¹				
Beardsley ¹	94	13	61.2	0.32	Saint Paul ¹				
Belle Plaine ¹	94	28	63.1	3.75	Saint Paul ¹				
Bingham Lake ¹	94	20	60.3	0.65	Saint Paul ¹				
Bird Island	98	25	59.4	1.05	Saint Paul ¹				
Blooming Prairie ¹	90	22	60.1	1.20	Saint Paul ¹				
Bonniwells Mills ¹	92	28	61.0	2.02	Saint Paul ¹				
Caledonia ¹	91	28	61.6	2.17	Saint Paul ¹				
Cambridge ¹	90	19	58.3	1.16	Saint Paul ¹				
Camden ¹	98	21	60.5	1.15	Saint Paul ¹				
Carver ¹			60.3	0.95	Saint Paul ¹				
Clear Lake ¹	93	22	59.4	1.23	Saint Paul ¹				
Clear Water ¹	89	28	60.6	1.38	Saint Paul ¹				
Collegeville	95	28	61.8	0.26	Saint Paul ¹				
Crookston ¹	87	11	55.4	1.34	Saint Paul ¹				
Dassel ¹	98 ^c	22 ^c	58.1 ^c	....	Saint Paul ¹				
Dawson ¹	99	21	60.5	0.65	Saint Paul ¹				
Farmington ¹	96	24	61.2	2.16	Saint Paul ¹				
Fergus Falls ¹	86	23	57.2	1.46	Saint Paul ¹				
Fort Ripley ¹			57.2	1.46	Saint Paul ¹				
Grand Meadow ¹	92	24	59.2	0.69	Saint Paul ¹				
Granite Falls	101	20	59.8	0.86	Saint Paul ¹				
Hinckley	89	19	56.2	0.62	Saint Paul ¹				
L Winnibigoshish ¹	85	30	55.1	1.80	Saint Paul ¹				

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean			Max.	Min.	Mean	
Minnesota—Cont'd.	o	o	o	Ins.	Missouri—Cont'd.	o	o	o	Ins.	Nebraska—Cont'd.	o	o	o	Ins.
Leech Lake ¹	85	27	55.3	1.54	Fayette ¹	105	34	73.0	1.94	Crete	95	39	67.7	2.35
Long Prairie ¹	85	16	59.4	1.28	Fox Creek ¹	94	42	70.7	4.34	Culbertson b ¹	....	....	....	0.76
Luverne ¹	94	28	60.8	2.61	Fulton	94	38	72.0	2.04	David City ¹	92	29	61.8	2.25
Maple Plain	94	24	59.0	1.75	Gallatin ¹	94	38	68.0	7.04	De Soto ¹	97	31	66.8	1.25
Milan ¹	101	15	61.5	0.80	Grayson ¹	100	35	71.4	2.49	Ericson ¹	98	42	67.2	0.70
Minneapolis a ¹	90	28	60.5	2.75	Glenwood ¹	98	35	71.4	2.49	Ewing ¹	94	38	67.4	0.74
Minneapolis b ¹	92 ^a	29	60.6											

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip. in. In.
	Max.	Min.	Mean	
N. Hampshire—Con.	0	0	0	44.
Berlin	75°	27°	49.2°	....
Berlin Mills	78	28	50.9	2.67
Bethlehem	76	30	50.8	2.69
Brookline ^a	82	35	56.7	2.31
Concord a	75	33	53.6	1.38
Dublin	72	37	54.5	2.85
Durham	76	38	57.8	1.95
East Canterbury	69	36	51.6	2.11
Grafton ^a	78	30	53.0	2.11
Hanover a ¹	73	34	53.0	2.31
Keene	75	30	53.2	2.45
Lakeport	73	30	52.6	2.63
Lancaster	80	29	51.4	2.47
Littleton ¹	76	30	50.8	2.58
Manchester ¹	78	38	57.8	2.56
Nashua	81	34	57.4	1.83
Newton	79	31	55.7	1.52
North Conway	79	32	53.8	2.95
Plymouth ¹	77	30	52.0	1.92
Sanbornton t	74	32	52.8	2.28
Stratford	84	27	55.5	1.8
Wiers Bridge	77	30	52.0	2.35
West Milan	76	25	50.2	2.93
Wolfboro	76	25	50.2	1.66
<i>New Jersey.</i>				
Allaire	82	37	61.2	....
Astbury Park ¹	83	40	64.2	1.93
Barnegat	88	39	62.4	2.53
Bayonne	84	43	64.4	2.53
Belvidere	82	37	62.5	3.57
Beverly ¹	88	41	61.7	4.34
Billingsport ^a	86	46	65.1	2.45
Boonton	88	44	67.0	2.89
Bridgeton a	88	43	64.4	3.32
Camden	84	43	65.5	5.14
Cape May C.H.	85	31	57.7	2.44
Charlotteburg	80	31	59.4	3.05
Chester	79	36	59.4	2.91
Deckertown	80	36	59.4	2.26
Dover	81	35	58.4	2.02
Egg Harbor City ¹	84	40	62.8	3.32
Elizabeth ¹	84	39	63.2	2.79
Franklin Furnace	79	32	58.2	3.18
Franklinville	84	39	62.8	3.01
Freehold ¹	84	38	62.5	3.26
Friesburg	82	35	58.4	4.62
Gillette	82	35	59.8	2.81
Hanover	85	36	61.8	3.20
Highland Park t	82	38	62.2	3.16
Hightstown	84	40	61.4	3.52
Imlaystown	87	40	64.0	3.54
Junction	84	37	62.6	4.28
Lambertville	84	37	62.6	....
Locktown	85	39	62.4	3.08
Millville	89	42	66.7	3.33
Moorestown ¹	86	40	62.7	3.72
Newark a	82	37	62.0	3.30
Newark b ¹	83	42	63.4	2.26
New Brunswick a	84	38	63.8	3.31
New Brunswick b	82	40	62.0	3.20
Newton ¹	81	36	59.3	2.88
Ocean City	88	45	65.8	4.13
Oceanic	84	48	66.5	3.10
Paterson	83	42	63.0	2.96
Pensauken	87	37	57	3.57
Plainfield	82	38	62.4	2.80
Rancocas	85	43	62.0	3.72
Readington ¹	84	44	68.2	....
River Vale ¹	82	36	60.2	2.66
Salem	87	41	64.6	2.13
Somerville	65	37	63.9	3.19
South Orange	80	42	66.6	2.72
Tenafly ¹	80	37	61.4	2.86
Toms River	84	34	62.6	3.94
Trenton	85	43	65.1	3.17
Vineland	90	39	65.6	2.75
Whiting	85	38	63.9	2.63
Woodbine	84	39	64.2	5.38
<i>New Mexico.</i>				
Albert t	92	53	70.4	3.71
Albuquerque t	90	44	65.7	....
Chama t	88	29	57.6	3.99
Coolidge t	84	32	59.0	0.95
Deming ⁸	93	63	76.8	2.64
East Las Vegas t	80	40	59.8	3.87
Embudo	98	46	64.4	2.6
Estalina Springs t	.....	.....	.....	2.92
Fort Bayard	87	43	65.0	3.88
Fort Wingate	87	29	58.2	1.50
Gallinas Spring t	90	45	66.1	4.42
Halls Peak t	82	26	54.2	1.83
La Luz t	85 ^c	44 ^c	67.8	4.00
Las Cruces t	95	39	70.1	2.39
Lordsburg ⁸	98	64	75.5	2.15
Los Lunas t	90	33	58.0	4.25
Monero t	80	28	53.8	4.19
Ohio t	93	36	64.5	1.30
Poquaque	.....	.....	.....	2.64
Socorro t	94	46	70.0	3.47
Springer t	89	37	62.6	1.44
Sulphur Hot Spgs	78	30	53.3	3.32
Taos t	87	32	58.4	2.00
Watrous	.....	.....	.....	3.57
<i>New York.</i>				
Addison ¹	82	34	56.9	2.34

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean			Max.	Min.	Mean	
	Ins.					Ins.					Ins.			
New York—Cont'd.	0	0	0	4.90	N. Carolina—Cont'd.	0	0	0	3.27	Ohio—Cont'd.	0	0	0	0.81
Alfred Center	79	31	52.8	2.67	Mount Pleasant	92	48	70.0	3.27	Hillhouse	91	31	62.4	3.29
Angelica	79	30	55.3	3.19	Murphy	.....	.....	.....	5.01	Hillsboro	98	32	68.2	3.29
Arcade	76	29	55.1	3.19	Newbern	88	43	70.4	3.44	Hiram	91	35	66.9	1.22
Arkwright	76	40	57.1	3.53	Oak Ridge	88	39	68.4	6.75	Jacksonboro	98	36	66.8	2.10
Atlanta	.....	.....	3.53	.....	Pittsboro	86	41	68.7	6.06	Kenton	96	30	65.8	1.57
Baldwinsville	78	39	55.4	2.63	Raleigh	90	47	71.5	2.70	Kilbourne	94	28	64.3	1.07
Bedford	.....	.....	2.59	.....	Rockingham	90	47	71.2	2.63	Killbuck	93	32	65.1	1.86
Binghamton	81	31	56.8	4.50	Roxboro	89	42	68.4 ¹	4.75	Leipsic	93	29	63.8	1.16
Bolivar	.....	.....	3.65	.....	Rutherford College	.....	.....	.....	.....	Levering	94	27	62.8	1.71
Boonville	.....	.....	3.17	.....	Salisbury	88	50	71.8	4.98	Logan	98	30	63.9	1.46
Bovine Center	.....	.....	4.66	.....	Saxon	90	37	67.2	6.80	Lordstown	87	29	60.5	1.09
Brentwood	78	38	59.6	2.55	Smithfield	89	51	60.9	5.57	McConnellsburg	93	31	65.3	1.86
Brookfield	75	30	58.2	2.02	Sloane	93	45	73.1	2.40	Mansfield	.....	.....	.....	2.35
Central Park, N. Y.	82	44	63.3	1.92	Soapstone M't	91	41	69.0	6.11	Marietta	.....	.....	.....	2.28
Cherry Creek	.....	.....	2.98	.....	Southern Pines	93	48	74.9	3.71	Marietta	90	37	67.4	1.47
Cooperstown	77	32	54.2	4.03	Tarboro	94	40	72.2	4.20	Marietta	96	28	63.3	1.52
Cortland	75	36	56.2	4.17	Washington	99	42	78.5	7.38	Melfordton	97	27	66.2	1.36
De Kalb Junction	.....	.....	3.13	.....	Weldon	91	41	70.6	5.80	Milligan	96	26	65.0	2.27
Demster	.....	.....	3.31	.....	Willeyton	90	42	69.9	6.10	Millport	91	26	62.0	1.09
Dunkirk	79	41	59.3	1.79	North Dakota	.....	.....	.....	.....	Montpelier	94	29	63.1	1.09
Easton	.....	.....	5.08	.....	Ashley	93	12	57.0	0.33	Mountville	94	32	65.8	1.12
Eden Center	82	34	60.1	5.46	Berlin	98	8	56.7	0.32	Napoleon	95	24	64.7	1.35
Ellis	.....	.....	4.17	.....	Bottineau	95	11	56.0	1.15	New Alexandria	86	34	65.1	1.06
Elmira	81	39	60.4	3.72	Churchs Ferry	93	15	56.4	1.20	New Berlin	94	30	70.3	1.43
Factoryville	86	33	58.6	5.57	Dunseith	95	19	58.3	1.50	New Comerstown	92	29	62.4	1.44
Fleming	79	38	58.7	2.36	Ellendale	92	18	54.0	1.89	New Holland	95	28	66.8	1.95
Fort Niagara	83	41	62.1	2.04	Fargo	90	15	55.6	0.38	North Lewisburg	97	31	66.8	1.15
Friendship	80 ^c	30 ^c	55.7 ^c	3.65	Formant	91	12	59.0	0.33	North Royalton	97	31	62.4	0.77
Geneva ¹	80	40	60.8	2.54	Fort Stevenson	92	17	55.2	0.85	Northwood	97	29	66.3	1.20
Glens Falls	79	33	54.1	3.87	Forts Hayes	98	15	60.0	T.	Oberlin	94	30	63.7	1.42
Gloversville	78	30	53.6	3.94	Gallatin	95	14	58.0	0.36	Ohio U. S. University	96	28	65.4	1.06
Heas Road Station	81	39	58.3	2.45	Grand Forks	89	11	55.5	0.64	Pataskala	95	28	65.6	1.25
Honeymead Brook	76	36	56.0	4.54	Jamestown	92	24	58.4	1.16	Piqua	95	30	64.2	1.70
Humphrey	81	30	57.2	3.83	Joslyn	94	12	56.0	1.30	Plattsburgh	94	29	64.2	1.01
Ithaca	80	39	57.0	4.38	Kelso	90	15	57.8	0.56	Pomeroy	92	35	66.0	1.20
Jamestown	79	36	59.7	3.65	Larimore	90	14	56.0	1.27	Portsmouth	.....	.....	.....	2.45
Kings Station	.....	.....	3.65	.....	Milton	91 ^a	10 ^d	55.18	1.00	Portsmouth	96	28	67.5	3.75
Lebanon Springs	77	31	55.0	4.52	Minto	87 ^a	19 ^e	55.6	0.49	Ridge	90	26	64.7	2.07
Le Roy	79	34	57.3	4.33	Napoleon	96	14	58.1	0.18	Ridg' v'lle Corners	95	26	65.0	1.47
Little Valley	.....	.....	3.29	.....	New Salem	102	10	59.8	0.70	Ripley	94	40	68.8	1.50
Lockport	82	36	59.9	3.43	Oakdale	90	25	58.6	1.54	Rittman	93	26	62.6	1.11
Lowville	75	29	53.1	2.82	Reynolds	88	25	57.3	0.45	Rush Creek	.....	.....	.....	1.05
Lyon Mountain	73	35	51.0 ^c	.....	St. Johns	88	24	55.0	1.32	Sharon Center	.....	.....	.....	0.96
Madison Barracks	82	34	58.1	2.28	Wahpeton	88	23	58.2	1.44	Sidney	.....	.....	.....	1.15
Malone	76	33	52.8	2.71	Washburn	96	16	61.4	0.39	Springboro	.....	.....	.....	1.04
Middletown	76 ^c	39 ^c	58.0 ^c	2.54	Wild Rice	90	26	54.6	0.86	Stoutsburg	.....	.....	.....	1.89
Minnewaska	78	38	54.6	3.53	Williamsport	95	16	58.6	0.07	Sylvania	95	26	62.8	1.58
Mount Morris	82	31	56.7	2.95	Williston	95	10	57.4	0.01	Thurman	98	34	68.4	0.58
Newark Valley	.....	.....	5.96	.....	Willow City	97	11	57.0	1.23	Tiffin	93	32	64.3	1.18
New Lisbon	78	29	52.4	4.05	Woodbridge	95	12	53.6	0.82	Upper Sandusky	93	31	65.4	1.09
Number Four	71	29	50.3	5.46	Ohio	.....	.....	.....	.....	Vanceburg	97	35	67.1	2.38
Ogdensburg	80	39	55.5	5.88	Akron	92	35	63.5	1.27	Van Wert	96	26	64.4	1.01
Oxford	80	32	55.6	3.94	Annapolis	92	29	62.4	0.54	Vermillion	92	35	63.4	0.99
Palermo	77	31	55.8	3.30	Arcanum	92	29	62.4	0.54	Vickery	95	31	63.7	1.34
Perry City	81	33	54.8	4.12	Baltimore	90	27	61.4	1.01	Walnut	.....	.....	.....	1.40
Phoenix	.....	.....	2.32	.....	Bangorville	94	34	64.1	2.11	Warren	94	27	61.7	1.37
Pine City	.....	.....	3.77	.....	Batavia	90	25	58.6	1.54	Wauseon	97	27	62.9	2.03
Plattsburg B'sks	73	33	54.8	2.12	Bement	90	30	59.3	1.00	Waverly	96	34	67.4	2.77
Port Jervis	78	35	58.3	1.93	Benton Ridge	100	24	64.0	1.18	Waynesville	.....	.....	.....	2.38
Potsdam	76*	33	52.6	3.00	Bethany	95	35	67.0	3.04	Wellington	.....	.....	.....	1.11
Poughkeepsie	82	34	58.3	3.43	Big Prairie	93	30	62.6	2.55	Westerville	92	31	64.6	1.26
Rome	75	35	56.7 ^c	3.54	Binola	92	32	64.5	0.67	Weymouth	95	28	61.9	1.05
Romulus	80	37	58.6	3.26	Bissells	91	31	62.2	0.95	Wheeler	92	31	62.6	0.85
Rondout	.....	.....	4.22	.....	Bladensburg	97	27	61.0	1.40	Wooster	95	28	64.2	1.85
Setauket	79	44	61.8	2.02	Bloomingburg	92	34	65.8	2.36	Wooster b	.....	.....	.....	1.85
South Canisteo	80	30	54.9	2.76	Bloomington	96	25	62.5	1.79	Youngstown	89	30	63.3	1.59
South Kortright	76	25	53.0	3.76	Bowling Green	96	25	62.5	1.79	Zanesville	89	30	63.3	1.51
Stillwater	78	35	55.6	3.07	Bucyrus	94	28	64.4	0.90	Oklahoma Ter.	.....	.....	.....	.....
Turin	72	32	52.3	3.36	Cadiz	94	28	64.4	1.15	Anadarko	105	44	75.4	3.03
Varysburg	84	29	58.4	4.47	Caledonia	91	30	63.4	1.43	Arapaho	104	42	74.6	2.62
Wappingers Falls	79	38	58.4	4.47	Cambridge	91	30	63.4	1.43	Buffalo	97	47	73.9	2.04
West Chazy	.....	.....	1.55	.....	Camp Dennison	94	36	68.1	2.25	Burnett	104	42	74.0	4.05
West Point	83	41	63.4	2.84	Canal Dover	92	31	60.1	1.56	Cloud Chief	107	42	75.0	3.66
Willets Point	85	45	62.6	2.17	Canton	93	31	63.8	1.08	Fort Reno	101	42	72.1	1.17
North Carolina	.....	.....	4.32	.....	Carrollton	93	26	64.4	1.30	Fort Sill	105	46	75.0	3.65
Asheville	87	43	65.4	7.42	Cedarville	.....	.....	.....	.....	Keokuk Falls	92	38	67.8	2.40
Auburn	.....	.....	4.04	.....	Celins	95	32	65.7	1.56	Mangum	106	52	74.3	1.62
Bailey	92	50	70.4	5.53	Cherry Fork	96	33	68.4	2.89	Ponca	106	41	70.4	2.50
Bakersville	89	39	64.6	5.80	Cheshire	.....	.....	.....	.....	Sac & Fox Agency	104	40	74.0	2.07
Blowing Rock	79	33	61.1	10.29	Chicago	95	24	63.7	1.84	Winneway	104	42	75.8	1.44
Bryson City	.....	.....	4.32	.....	Clarksburg	94	34	67.0	2.23	Oregon	.....	.....	.....	.....
Chapel Hill	93	42	70.7	6.40	Coaltown	99	29	67.5	1.49	Albany a ¹	78	39	56.0	2.77
Columbus	80	45	65.0	11.90	Colebrook	.....	.....	.....	.....	Albany b ⁸	80	50	60.4	1.82
Currituck Inlet	.....	.....	3.27	.....	Daytona ^a	95	30	68.2	2.59	Arlington	101	37	62.3	0.89
Douglas	92	38	69.6	10.10	Daytona b ¹	95	30	68.2	1.54	Ashland a ⁸	94	38	58.0	2.50
Experiment Farm	89	47	71.0	3.42	Demos	87	35	64.4	0.96	Ashland b ⁸	98	34	57.6	2.83
Falkville	90	43	72.0	5.14	Dupont	93	26	64.1	1.50	Aurora a ⁸	85	45	61.1	3.69
Fayetteville	.....	.....	5.15	.....	Ellsworth	91	31	62.8	1.26	Bandon	69	41	56.0	6.01
Flat Rock	85	43	65.0	14.16	Findlay	94	24	63.7	1.51	Beulah ^b	93	26	55.0	1.44
Goldsboro	91	44	72.9	3.21	Fostoria	94	32	65.8	1.50	Brownsville ^a	82	33	58.8	3.74
Greensboro	88	46	73.1	6.55	Frankfort	92	32	65.8	1.50	Brownsville ^b	102	34	58.6	3.44
Greenville	.....	.....	5.07	.....	Garrettsville	92	28	60.1	1.44	Constock ^a	80	43	55.8	4.48
Henderson	94	42	68.8	9.05	Granville	94	27	63.2	0.95	Constock ^b	80	36	56.4	3.24
Highlands	80	39	60.4	15.11	Gratiot	93	30	65.4	1.16	Corvallis a ¹	72</			

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean	
Oregon—Cont'd.	0	0	0	Ins.	Pennsylvania—Con.	0	0	0	Ins.
Hepner f.	97	34	58.0	3-48	Somerset ¹	90	29	59.9	3-26
Hood River (near).	90	34	54.7	3-26	South Eaton	88	36	58.0	2-21
Hubbard	77	34	50.7	3-44	State College ¹	87	30	60.0	2-22
Jacksonville	92	37	57.6	1-77	Stoyestown ¹	87	32	64.4	2-14
Joseph f.	89	28	51.8	2-52	Uniontown ¹	87	32	64.4	1-30
Junction City ⁸	96	46	61.4	2-03	Warren ¹	87	32	64.4	1-28
Lafayette ⁸	82	42	59.8	2-64	Wellsboro ¹⁺¹	76	28	53.2	2-03
Le Grande f.	95	35	58.5	2-36	West Chester ¹	86	41	63.4	2-58
Lakeview ¹	95°	25°	54.4°	1-19	West Newton ¹	87	32	64.4	1-39
Langlois	86	40	58.9	4-89	Westtown ¹	85	40	66.8	2-01
Leland ⁸	90	38	56.7	2-82	Wilkesbarre ¹	85	32	60.3	3-74
Lone Rock ⁸	90	25	52.6	1-90	Wyox ¹	83	32	58.6	2-89
McMinnville ⁸	74	45	56.9	2-20	York ¹	89	36	63.3	1-57
Momouth ⁸	98	42	62.0	2-14	Rhode Island				
Mount Angel ¹	78	36	56.6	3-11	Kingston ¹	76	40	57.5	3-76
New Bridge	103	30	60.7	0-64	Lonsdale	76	29	57.5	2-90
Newport	76	31	51.8	2-80	Newport ¹	77	44	60.8	....
Oregon City	78	44	61.0	3-36	Olinsey ¹	78	40	61.1	....
Portland ⁸	83	46	60.2	2-83	Pawtucket ¹	78	40	59.2	2-54
Riddles ⁸	78	36	52.8	2-98	Providence ^a	78	42	60.0	2-27
Roseburg ⁸	78	44	59.5	3-28	Providence ^c	79	40	58.8	2-55
Salem ^a ⁸	80	40	56.8	3-17	South Carolina				
Salem b ¹	94	36	56.6	3-55	Allendale ¹	95	52	76.9	1-10
Sheridan ⁸	86	42	58.2	2-88	Anderdon ¹	....	6.76	....	....
Silverton ⁸	82	40	56.8	3-55	Batesburg ¹	91	54	75.0	4-08
Siskiyou ⁸	90	38	56.1	2-88	Blacksburg ⁸	50	62.6	4-84	....
Sparta	90	27	53.4	2-84	Blackville ¹	91	51	77.1	2-73
Springbrook	90	41	58.2	3-27	Blenheim ¹	90	53	72.1	....
Springfield ⁸	78	42	56.9	0-98	Brewer Mine ¹	90	47	71.5	2-50
The Dalest ¹	101	37	60.6	1-21	Camden ¹	....	1-98	....	....
Toledo	82	35	55.6	3-98	Central ¹	....	70.6	13-08	....
Umatilla ¹	....	....	0-98	Cheraw ¹	91	48	73.3	3-58	
Vale	94	27	59.2	1-95	Cheraw b ¹	....	4-41	....	....
Vernonia ⁸	62	37	57.5	4-14	Cross Hill ¹	95	51	75.1	4-39
West Fork ⁸	90	42	58.2	3-71	Davis Bridge ¹	94	58	76.2	4-43
Weston	96	37	57.9	3-80	Evergreen ¹	89	50	71.8	7-85
Williams	89	30	56.6	1-31	Flint Hill ¹	89	49	72.3	3-92
Pennsylvania					Florence ¹	93	50	75.8	5-29
Altoona	85	33	63.9	1-85	Georgetown ¹	92	55	75.7	4-79
Aqueduct ¹	89	36	61.9	2-66	Greenville ¹	90	46	71.2	4-49
Blooming Grove ¹	83	37	55.2	2-61	Greenwood ¹	92	54	74.6	3-16
Bloomsburg	84	37	60.3	2-65	Hampton ¹	93	58	77.0	5-52
Blue Knob ¹	80	34	58.8	2-76	Hardeeville ¹	94	54	76.7	12-32
Brookville ¹	....	....	2-06	Kingstreet ¹	94	54	76.7	12-32	
Browers Lock ¹	....	....	3-41	Kitchings Mills ¹	98	59	84.5	2-55	
Carlisle ¹	90	34	62.0	2-56	Longshore ¹	97	58	75.2	2-55
Chambersburg ¹	65.0	2-30	....	Martins ¹	91	51	73.4	3-77	
Clarion ¹	....	....	2-53	Mount Carmel ¹	....	4-93	....	....
Coatesville ¹	89	36	59.1	3-67	Nichols ¹	....	4-34	....	....
Confidence ¹	....	....	2-46	Pinopolis ¹	86	56	74.5	4-03	
Coopersburg ¹	80	39	60.4	3-23	Port Royal ¹	94	58	78.7	3-05
Davis Island Dam ¹	....	....	1-66	Saint Georges ¹	92	52	75.9	3-00	
Dovestown ¹	....	....	3-05	Saint Matthews ¹	96	51	72.0	1-71	
Drifton ⁴	60	30	57.4	4-19	Saint Stephens ¹	....	4-14	....	....
Du Bois ¹	....	....	2-61	Santuck ¹	90	54	71.4	4-57	
Dyberry ¹	80	28	53.5	3-58	Sedalia ¹	89	56	74.0	3-92
East Mauch Chunk ¹	83	35	59.7	3-85	Selma ⁸	....	58.4	3-92	....
Easton ¹	82	37	61.1	2-92	Simpsonville ¹	91	52	73.1	3-18
Edinboro ⁸	80	35	58.9	2-92	Society Hill ¹	91	49	72.5	2-38
Emporium ⁴	84	34	59.0	2-10	Spartanburg ¹	92	52	73.4	2-81
F'ks of Neshaminy ⁸	62.0	3-51	....	Statesburg ¹	90	53	73.1	2-81	
Frederick	....	....	3-10	Tillers Ferry ¹	92	48	73.0	1-76	
Freeport ¹	....	....	2-37	Tillers Ferry b ⁸	92	60	78.0	4-14	
Gettysburg ¹	....	....	3-29	Trenton ¹	92	60	78.0	4-14	
Girardville ¹	82	35	59.2	3-10	Vance ²	96	52	76.7	5-61
Grampian ¹⁴	82	32	59.2	3-21	Wateree ¹	....	75.6	3-27	....
Greensboro ¹	....	....	1-18	Watts ⁸	....	72.6	2-48	....
Hamburg ¹	86	37	62.4	5-59	Yorkville ¹	93	51	72.6	2-48
Holidayburg ¹	89	26	61.5	1-92	Youngs Island ¹	92	50	73.0	6-03
Honesdale ¹	76	34	55.9	2-83	South Dakota	....	76.2	1-10	....
Huntingdon ¹	90	32	61.0	3-50	Aberdeen ¹	100	19	52.0	0-23
Johnstown ¹	89	32	56.9	2-26	Alexandria ¹	106	20	65.6	0-05
Kennett Square	88	39	64.3	4-24	Ashcroft ¹	102	11	59.5	0-93
Kilmer ⁸	88	38	62.9	2-90	Cross ¹	92	18	58.3	0-19
Lancaster	87	36	63.4	2-78	De Smet ¹	104 ^a	14	68.9	0-50
Lebanon ¹	88	35	62.3	3-79	Faulkton ¹	97	26	61.8	0-29
Le Roy ¹	78	36	58.6	2-70	Flandreau ¹	99	20	61.6	0-07
Lewisburg	87	34	60.2	1-74	Brookings ¹	96	18	61.4	0-56
Ligonier ¹	87	28	59.8	2-84	Castlewood ¹	99	9	59.3	0-36
Lock Haven ¹	89	33	60.3	3-70	Forestburg ¹	102	18	58.3	0-30
Lock No. 4 ¹	....	....	1-10	Bowdrie ¹	94	18	58.3	0-30	
Lycippus ⁸	82	42	62.6	1-57	Highland	....	50°	2-15	....
Mahoning ¹	....	....	2-77	Houston ¹	100	41	70-9	2-30	
Meadville ¹	84	31	60.6	0-57	McFetrich ¹	103	45	63.0	0-40
Newcastle ¹	88	26	64.8	2-07	Ringgold ¹	102	63	63.5	2-40
Oil City ¹	....	....	2-39	Fredericksburg ¹	102 ^b	55	78.8	0-10	
Ottoville ¹	....	....	3-04	Brownf ¹	106	66	83.0	1-02	
Parker ¹	....	....	2-53	Gainesville ¹	104 ^d	55 ^e	80.2 ^d	1-72	
Philadelphia ^a	85	43	65.7	3-65	Graham ¹	106	50	80.0	2-04
Philadelphia ^b	85	43	65.7	3-96	Grape Vine ¹	105	54	82.3	1-68
Phoenixville	87	39	54.3	3-01	Hale City ¹	102	49	71.7	3-12
Point Pleasant ¹	....	....	3-01	Hallettsville ¹	104	48	77.8	0-05	
Pottstown ¹	86	40	63.6	3-69	Hartley ¹	95	47	71.9	2-35
Quakertown ¹	86	35	60.1	3-67	Haskell ¹	105	60	83.0	1-83
Reading ¹	....	....	3-83	Hearne ¹	102	58	78.6	1-30	
Ridgeway ¹	....	....	1-86	Hightland	....	50°	2-9	0-45	
Saegerstown	86	28	59.7	0-72	Houston ¹	99	60	79.3	0-34
Salem Corners ¹	79	33	55.9	2-32	Huntsville ¹	98	53	68.8	0-23
Saltsburg ¹	....	....	1-81	Kent ¹	....	....	1-35	....
Seisoltzville ¹	....	....	3-19	Laredo ¹	97	16	64.8	0-00	
Selins Grove ¹	89	32	63.2	3-12	Parkston ¹	100	20	63.1	0-47
Skipack ⁴	83	38	62.1	2-94	Piedmont	....	T.	....	....
Smethport	83	28	57.8	2-92	Rosebud ¹	100	36	67.6	0-00
Smiths Corners	....	....	3-09	Sioux Falls ¹	98	19	63.6	0.60	

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean	
S. Dakota—Cont'd.	0	0	0	Ins.	Tennessee	0	28	63.3	0.22
Spearfish ¹	96	29	63.3	0.22	Andersonville ¹	89	43	68.2	2-11
Tyndall ¹	100	27	67.7	1.02	Wilkesbarre ¹	85	41	68.3	0.54
Wessington Spgs ¹	102	28	68.4	0.34	West Newton ¹	97	40	70.9	4-68
Whitewood	....	....	....	....	Westtown ¹	95	51	71.0	4-90
Woicey ¹	102	25	59.9	0.36	Westport ¹	94	49	72.0	....
Tennessee									

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean	
Virginia—Cont'd.	o	o	o	Ins.	Wisconsin—Cont'd.	o	o	o	Ins.
Wytheville†	83	36	63.3	5.62	Bayfield	86	38	66.8	o.02
Washington.					Beaver Dam	86	38	63.5	1.80
Aberdeen†	84	29	55.7	4.89	Beloit	90	24	59.3	2.24
Anacortes.			1.38		Black River Falls†	95	22	58.8	2.62
Blaine†	80	35	53.8	3.21	Butternut†	85	14	51.8	3.37
Bridgeport†	101	31	65.6	0.47	Cadiz*	93	30	62.9	2.38
Centerville†	92	26	57.9	1.41	Centralia	93	24	58.1	2.46
Centralia	81	32	55.9	3.02	Chippewa Falls†	93	24	58.1	1.20
Chehalis†	77	35	56.0	2.17	Columbus	89°	25°	58.4°	2.75
Chelan†	88	35	59.6	0.78	Crandon†	85	24	54.8	1.70
Colfax†	91	31	56.4	1.31	Delavan (near)†	96	34	65.0	2.60
Connell†	102	29	62.6	0.59	Depere†	88	29	58.7	3.59
Crystal Springs*†	80	48	59.1	1.00	Eau Claire	89	25	59.2	2.21
Davenport†	94	28	57.0	1.22	Estella†	90	15	60.2	0.86
Dayton†	97	33	59.7	1.97	Florence†	85	19	54.4	1.62
East Sound†	74	40	55.1	2.12	Fond du Lac†	91	28	58.5	2.48
Elbe			5.21		Grantsburg†	85	20	56.6	1.40
Ellensburg†	91	28	55.8	1.11	Harvey†	90	28	61.2	1.66
Ferry†	81	34	56.9	4.43	Hayward†	86	15	55.3	2.21
Fort Simcoe	93	38	61.0	0.32	Hillsboro	90	22	57.0	1.21
Fort Spokane	89	29	58.7	1.12	Janesville	92	30	61.2	2.05
Fort Townsend†	86	41	54.4	0.88	Juneau†	92	26	56.3	3.12
Madrone*†	77	38	55.6	2.96	Koopenich†	86	30	57.8	1.50
Moxee Valley†	95	29	50.0	0.48	Lancaster†	90°	29°	58.6°	2.11
Oiga†	75	42	55.4	1.69	Lincoln†	85	22	59.2	2.75
Pine Hill†	96	38	56.7	2.57	Madison†	85	35	61.5	2.67
Pomeroy†	100	32	60.0	1.58	Manitowoc†	88	32	58.8	3.85
Pullman†	93	33	55.8	2.32	Medford†	90	17	56.0	2.77
Rosalia†	94	29	54.2	1.54	Medford b†	90	15	56.0	2.14
Silver Creek*†	78	37	55.8	4.24	Menomonie†	93	12	55.6	2.50
Tacoma†	77	38	56.0	1.77	Neillsville†	86	19	57.3	3.42
Union City*†	76	38	54.6	2.89	Oconomowoc†	90	29	61.0	2.94
Vashon†	73	30	51.6	1.85	Oconto	87	22	57.5	2.22
Waterville†	93	29	56.4	0.64	Osceola†	98	20	58.6	2.04
West Ferndale.	81	33	55.6	2.88	Oshkosh†	88	30	60.0	3.19
West Virginia.					Pepin	92	26	62.1	1.22
Bluefield†	86	35	63.0	4.31	Portage†	85	22	57.4	2.74
Buckhannon a†			2.08		Prairie du Chien.	96	20	63.2	1.40
Central Station†	90	30	68.4	2.48	Raymond	93	25	60.5	3.73
Charleston a†					Sharon†	93	32	62.6	2.66
Elkhorn†	85	36	65.5	4.23	Shawano	90	21	56.6	1.60
Ella†	89	36	63.8	1.53	Sparta b†	93	25	58.6	2.47
Fairmont†			2.20		Stevens Point†	91	22	58.7	3.81
Glenville†	88	36	65.0	2.19	Valley Junction†	91	15	56.8	1.49
Grafton†	88	31	65.6	1.51	Viroqua	87	28	60.2	2.83
Harpers Ferry†					Watertown†	89	28	58.6	2.83
Hinton†			2.17		Westfield†	88	28	59.0	1.95
Kingswood*†	86	29	60.3	2.52	Weston*†	94°	20°	55.6	3.37
Martinsburg†	88	34	64.0	2.81	Whitehall†	90	18	57.0	1.08
Morgantown†			2.20		Wyoming.				
New Martinsville*†	90	34	65.1	1.67	Camp Pilot Butte	85	26	55.8	0.45
Nuttallburg†			1.85		Fort McKinney	95	29	61.0	0.10
Parkersburg†	90	35	65.7	2.64	Fort Washakie	86	24	55.7	0.12
Philip†			1.70		Fort Yellowstone†	84			1.44
Pleasant Hill*†	86	40	61.6	2.92	Lander	84	29	57.6	0.43
Point Pleasant†	91	37	67.7	1.74	Laramie b	78	24	54.8	0.39
Rowlesburg†			1.78		Sheridan†	78	21	49.9	0.80
Sandyville†	90	32	65.3	1.61	Sundance	96	23	57.6	1.57
Spencer†	90	32	62.8	1.33	Wheatland†	99	28	63.0	T.
Tannery*†	88	34	66.4	2.40	Canada.				
Weston a†					Fort Francis, Ont.	81	26	52.4	2.16
Weston b†	86	36	65.9	0.95	Mexico.				
Wheeling a†					Saint John	67	42	53.3	2.14
Wisconsin.	90	38	67.5	1.05					

Reports received too late to be used in general discussion of weather for September, 1898.

Kansas.				Ohio.					
Grainfield*†	98	56	77.3	2.00	Cleveland†	86	38	62.4	1.07
Hays City†	98	35	69.5	2.65	Elyria	94	30	64.7	0.79
Manhattan c†	100	36	67.0	2.61	Shenandoah	92	27	64.0	1.93
Monument*†	94°	38°	68.4	0.75	Oregon.				
Quinter*†	94	52	73.6	2.00	Aurora (near).	79	38	56.2	3.16
Wa Keeney*†	94	50	70.1	2.00	South Dakota.				
Wallace b†	100	58	76.3	0.75	Millbank†	100	21	62.8	0.00
Winona*†	94	46	72.0	1.00	Northville†	100	14	62.0	0.00
Kentucky.				Webster†	101	10	62.0	0.24	
Hendricks	72	39	59.4	3.80	Texas.				
Williamsburg a†	87	14	55.6	2.85	Panter*†	109	60	79.4	0.77

Received too late for publication in August, 1898.

Alaska.				California—Cont'd.				
Coal Harbor†	62	39	50.7	Jolon				
Arizona.				Mills College				
Chiricahua Mts†			10.98	Mountain View				
Arkansas.				Oleta				
Helena†	97	59	79.0	Oroville b				
California.			2.17	Redlands a				
Biggs				Redlands b				
Colegrove				Riverside a†	102	50	75.7	0.00
Glendora				Santa Maria†	88	46	60.4	1.08
Guinda				Colorado.				
Hyde Ranch				Arboles				

Reports received too late, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean	
Colorado—Cont'd.	o	o	o	Ins.	Colorado—Cont'd.	o	o	o	Ins.
Bayfield	86	38	62.9	3.58	Fort Collins†	92	38	66.8	o.02
Beaver Dam	86	38	62.9	3.58	Garnett	92	38	61.8	1.80
Belleville	90	24	59.3	2.38	Grover†	92	36	64.8	1.23
Beloit†	93	30	62.9	2.38	Manhattan*†	37	58.0	1.75	1.00
Black River Falls†	95	22	58.8	2.62	Saint Cloud				
Butternut†	85	14	51.8	3.37	Steamboat Spring†	91	27	60.0	0.15
Cadiz*†	93	32	56.0	2.35	Florida.				
Centralia	93	24	58.1	2.46	Avon Park*†	95	75	82.1	7.26
Chisholm	93	24	58.1	2.46	Georgia.				
Columbus	89°	25°	58.4°	2.75	Piscola				
Crandon†	85	24	54.8	1.70	Poulan†	97	60	80.3	3.88
Delavan (near)†	96	34	65.0	2.60	Illinois.				
Depere†	88	29	58.7	3.59	Bloomington†	100	37	71.6	0.15
Eau Claire	89	25	59.2	2.21	Cordova.				
Estella†	90	15	60.2	0.86	Kansas.				
Florence†	85	19	54.4	1.62	Falkland.				
Fond du Lac†	91	28	58.5	2.48	North Dakota.				
Grantsburg†	85	20	56.6	1.40	Fort Berthold†	100	30	76.1	0.17
Harvey†	90	28	61.2	1.66	Emporia				
Hayward†	86	32	62.6	2.66	Johnstown				
Hillsboro	90	22	57.0	1.21	South Dakota.				
Janesville	92	30	61.2	2.05	Millbank†	98	38	68.1	2.05
Juneau†	92	28	61.3	2.22	Northville†	106	33	68.8	0.87
Keweenaw	98	40	55.1	2.22	Panter†	104	52	81.4	3.17
Leavenworth	98	40	55.1	2.22	Twohig†	110	67	87.6	0.00
Leonardtown					Utah.				
Loat†					Mississippi.				
Loa†					Missouri.				
Lochiel					Mississippi.				
Loon Lake					Mississippi.				
Lyndon					Mississippi.				
Madison					Mississippi.				
Maplewood					Mississippi.				
Marquette					Mississippi.				
Marshall					Mississippi.				
Marquette					Mississippi.				
Marquette					Mississippi.				
Marquette					Mississippi.				
Marquette					Mississippi.				

Climatological data for September, 1898—Weather Bureau Stations.

Districts and stations.	Elevation above sea-level, feet.		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.						Humidity and precipitation.			Wind.			Mean temperature data since opening of station.																											
	Length of record, years.		Mean pressure, 8 a.m. and 8 p.m. + 2.		Mean reduced.		Departure from normal.		Mean max. and min. + 2.		Departure from normal.		Mean maximum.		Mean minimum.		Greatest daily range.		Mean temperature of the dew-point.		Precipitation, in inches.		Departure from normal.		Days with 0.1 or more.		Total movement, miles.		Prevailing direction.		Maximum velocity.		Clear days.		Cloudy days.		Average cloudiness, tenths.		Highest for month.		Lowest for month.		Year.	
	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.	Mean	years.								
New England.																																												
Eastport	53	21	29.89	29.95	—	—	0.8	58.3	—	2.8	53.9	—	1.3	73	13	60	41	22	47	26	47	81	2.56	—	1.1	1.93	6,512	sw.	36	se.	16	6	13	11	6.5	58.4	1891	53.4	1875					
Portland	103	22	29.87	29.97	—	—	0.8	55.6	—	1.9	74	10	56.6	4-3	79	56	39	27	45	25	50	84	2.33	—	0.9	1.95	5,544	nw.	31	se.	16	6	12	10	5.5	58.4	1891	55.8	1873					
Manchester	247	7	29.75	30.00	—	—	0.8	51.9	—	4.3	76	14	56	5	67	35	27	39	41	39	46	85	2.25	—	1.4	1.4	5,495	nw.	24	n.	20	7	12	11	6.0	60.6	1891	51.8	1863					
Northfield	872	7	29.98	30.02	—	—	0.8	51.9	—	4.3	76	14	56	5	67	35	27	39	41	39	46	85	1.91	—	1.3	1.3	5,781	s.	36	n.	20	7	14	11	5.1	63.6	1891	54.3	1874					
Boston	125	23	29.89	30.03	—	—	0.8	60.0	—	2.1	80	5	68	43	36	52	29	51	77	1.59	—	1.6	1.2	7,584	w.	44	n.	7	14	11	4.8	63.6	1891	59.3	1868									
Nantucket	14	7	30.02	30.03	—	—	0.8	59.8	—	3.1	72	20	66	41	39	55	16	52	2.24	—	2.5	1.0	8	3,245	sw.	58	s.	30	16	1	13	5.1	65.4	1891	59.8	1863								
Woods Hole	16	—	—	—	—	—	—	60.6	—	2.8	73	20	66	45	39	59	17	—	—	—	—	2.99	—	0.5	1.2	11,257	sw.	58	s.	7	14	9	5.7	65.8	1891	60.8	1868							
Vineyard Haven	7	—	—	—	—	—	—	61.8	—	2.6	79	12	69	46	39	55	33	—	—	—	—	2.58	—	0.6	1.3	9,478	nw.	46	ne.	30	11	12	10	4.7	66.8	1891	61.8	1868						
Block Island	27	14	30.01	30.04	—	—	0.4	61.2	—	1.5	73	20	66	48	39	56	15	54	79	2.58	—	0.6	1.3	9,478	nw.	46	ne.	30	11	12	10	4.6	67.3	1891	58.6	1868								
Narragansett Pier	—	—	—	—	—	—	—	58.6	—	3.6	76	16	68	40	30	51	27	50	52	77	2.29	—	1.3	1.2	4,962	nw.	34	s.	15	13	9	8	4.5	58.3	1891	58.4	1871							
New Haven	107	21	29.91	30.03	—	—	0.6	60.1	—	2.3	80	5	69	41	29	51	36	52	79	2.24	—	1.7	1.2	5,654	n.	29	hw.	7	13	8	4	6.0	70.9	1891	59.7	1867								
New London	47	23	29.93	30.03	—	—	0.5	59.5	—	3.4	77	5	68	40	29	51	28	52	77	4.23	—	0.5	1.0	4,962	nw.	34	s.	15	13	9	8	4.5	58.3	1891	58.4	1871								
Mid. Atlantic States.																																												
Albany	85	20	29.95	30.04	—	—	0.3	59.2	—	3.7	79	5	68	38	27	50	28	51	78	3.20	—	0.4	1.1	5,025	s.	32	se.	25	10	8	10	5.5	70.9	1891	58.6	1875								
New York, N. Y.	185	23	29.85	30.05	—	—	0.4	44	—	1.8	84	19	71	45	30	57	25	54	72	2.27	—	1.7	1.0	6,925	nw.	30	s.	16	7	15	12	5.6	69.4	1891	61.6	1868								
Harrisburg	377	6	29.66	30.07	—	—	0.4	63.4	—	—	86	19	71	41	27	55	32	55	79	1.74	—	1.7	1.0	4,725	s.	33	w.	16	9	9	12	5.6	69.4	1891	70.0	1879								
Philadelphia	117	23	29.93	30.05	—	—	0.5	65.6	—	1.4	87	19	71	44	30	56	20	53	73	3.70	—	0.3	1.0	7,281	nw.	37	sw.	16	13	11	10	5.5	74.5	1891	62.0	1868								
Atlantic City	53	20	30.00	30.05	—	—	0.4	64.6	—	1.6	84	19	71	44	30	59	22	57	78	3.61	—	0.1	1.0	7,735	sw.	16	13	11	10	6	4	5.5	72.6	1891	62.0	1868								
New Brunswick	—	—	—	—	—	—	—	62.2	—	1.6	88	2	72	38	30	53	33	54	70	1.80	—	2.0	8	5,662	w.	36	n.	16	12	9	8	5.2	76.9	1891	63.4	1871								
Baltimore	179	23	29.87	30.06	—	—	0.4	66.6	—	1.6	88	19	74	44	30	59	28	54	70	1.80	—	2.0	8	5,662	w.	36	n.	16	12	9	8	5.0	77.0	1891	62.3	1871								
Washington, D. C.	112	23	29.90	30.05	—	—	0.3	66.0	—	1.4	88	22	74	42	30	57	30	56	76	3.91	—	0.1	9	3,851	nw.	30	n.	16	13	6	8	5.0	77.5	1891	62.8	1869								
Cape Henry	—	—	—	—	—	—	—	71.4	—	1.0	90	23	73	52	30	64	28	61	74	4.58	—	0.3	1.1	2,350	se.	20	hw.	16	12	8	10	5.2	78.4	1891	62.1	1871								
Lynchburg	685	23	29.30	30.09	—	—	0.8	67.4	—	1.5	89	19	71	41	30	53	35	61	86	8.01	—	4.7	12	2,350	ne.	20	hw.	16	12	8	10	5.2	78.4	1891	62.1	1871								
Norfolk	57	23	30.00	30.06	—	—	0.3	70.0	—	1.4	89	23	78	51	29	64	25	63	81	6.29	—	1.4	9	5,571	sw.	28	n.	14	8	4.8	77.5	1891	67.5	1871										
S. Atlantic States.								74.9	—	1.1	88	20	80	47	30	62	28	62	79	6.99	—	3.5	8	3,664	sw.	26	w.	25	15	11	10	4.6	77.4	1891	68.8	1879								
Charlotte	773	15	29.26	30.05	—	—	0.3	71.2	—	0.8	91	20	80	47	30	62	28	62	79	6.99	—	3.5	8	3,664	sw.	26	w.	25	15	11	10	4.6	77.4	1891	68.8	1879								
Hatteras	11	33	30.00	30.07	—	—	0.4	74.0	—	0.5	83	* 78	58	30	70	15	66	66	64	70	1.27	—	3.9	11	5,694	sw.	36	w.	16	11	8	9	3.9	77.4	1891	70.0	1879							
Kittyhawk	9	18	30.03	30.04	—	—	0.1	72.7	—	0.5	83	19	78	55	30	63	21	64	79	3.20	—	0.5	10	5,470	s.	24	n.	16	11	7	10	4.9	72.0	1891	67.3	1867								
Raleigh	388	18	29.60	30.03	—	—	0.3	70.6	—	0.4	92	20	80	44	30	62	24	71	87	4.79	—	0.9	9	5,036	sw.	26	s.	14	8	4	9	4.4	77.8	1891	71.0	1867								
Southport	34	18	30.02	30.05	—	—	0.4	74.6	—	0.4	92	20	81	52	30	69	24	71	87	4.79	—	0.9	9	5,036	sw.	26	w.	16	11	7	8	4.4	77.8	1891	71.0	1867								
Wilmington	—	—	—	—	—	—	—	74.9	—	1.7	95	20	82	49	30	68	26	67	83	3.06	—	3.7	9	3,950	s.	20	sw.	14	8	4	8	4.7	78.8	1891	71.1	1871								
Charleston	52	23	30.02	30.07	—	—	0.1	78.0	—	2.6	94	18	84	52	30	68	26	70	82	2.79	—	1.3	6	5,261	s.	25	n.	10	14	9	16	5.0	80.7	1891										

Climatological data for September, 1893—Weather Bureau Stations—Continued.

Districts and stations.	Elevation above sea-level, feet.	Length of record, years.	Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.				Humidity and precipitation.				Wind.				Mean temperature data since opening of station.																
			Mean pressure, 8 a.m. and 8 p.m. + 2.	Mean reduced.	Departure from normal.	Mean max. and min. + 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Departure from normal.	Days with .01 or more.	Total movement, miles.	Precipitation, in inches.	Prevailing direction.	Miles per hour.	Clear days.	Cloudy days.	Average cloudiness, tenths.	Highest for month.	Lowest for month.	Year.					
			Mean.	Mean.	Departure from normal.	Maximum.	Date.	Mean.	Mean.	Mean.	Mean.	Mean.	Range.	Mean.	Mean.	Departure from normal.	Days with .01 or more.	Total movement, miles.	Prevailing direction.	Date.	Clear days.	Cloudy days.	Average cloudiness, tenths.	Highest for month.	Lowest for month.	Year.							
<i>Up. Miss. Val.—Con.</i>																																	
Davenport.....	613	22	29.33	29.98	-.06	66.4	+ 2.2	96	7	78	37	25	55	35	49	62	3.36	+ 0.1	8	6,115	sw.	35	sw.	21	13	9	4.5	69.8	1881	60.5	1879		
Des Moines.....	869	20	29.04	29.96	-.05	66.2	+ 1.5	95	6	79	33	25	53	38	48	64	1.33	- 2.2	4	5,270	sw.	35	sw.	21	20	7	3.6	68.3	1881	59.4	1883		
Dubuque.....	65	21	29.28	29.97	-.06	63.9	+ 1.5	97	6	80	37	25	57	37	51	61	3.31	- 1.2	5,329	se.	30	sw.	21	16	8	7	3.8	67.3	1881	62.7	*		
Keokuk.....	613	23	29.32	29.97	-.06	68.0	+ 3.2	97	6	80	37	25	62	30	50	75	6.83	+ 0.5	4,111	sw.	36	w.	21	15	8	7	3.5	72.4	1881	66.5	1890		
Cairo.....	359	23	29.63	30.02	-.03	71.2	+ 1.5	92	15	80	44	26	56	44	50	75	2.15	- 1.3	10	9,413	s.	28	nw.	25	16	5	9	4.6	75.1	1881	62.5	1879	
Springfield, Ill.....	644	15	29.31	29.99	-.07	69.2	+ 3.5	94	14	80	39	26	56	34	51	62	1.47	- 0.2	6,212	sw.	30	nw.	15	15	4	11	4.6	72.1	1881	62.5	1879		
Hannibal.....	534	...	29.41	29.97	-.07	69.6	+ 2.0	92	14	82	34	26	53	41	52	64	3.69	+ 0.4	6,310	sw.	38	sw.	18	15	9	6	4.2	...	64.9	1879			
Saint Louis.....	571	23	29.38	29.98	-.07	72.6	+ 3.4	99	14	82	44	26	63	29	56	64	4.48	+ 0.8	7,334	sw.	33	s.	16	7	7	3	9.75	3	1881				
<i>Missouri Valley</i>																																	
Columbia.....																																	
Kansas City.....	963	6	28.95	29.96	...	71.4	...	104	14	87	33	26	68	36	53	60	3.45	...	6	4,275	se.	30	s.	21	20	6	4	2.9	...	63.2	1890		
Springfield, Mo.....	1,356	7	28.57	29.97	-.07	72.0	+ 4.3	102	14	84	40	25	66	34	53	61	5.91	+ 2.3	7,020	sw.	36	sw.	18	16	7	7	3.6	71.1	1881	63.4	1890		
Leavenworth.....	857	23	29.07	29.97	...	70.5	+ 3.1	103	13	82	40	25	53	36	54	62	4.02	+ 1.0	9,588	s.	45	s.	18	15	6	9	4.5	71.7	1881	63.4	1883		
Topeka.....	7	...																															
Omaha.....	1,123	23	28.78	29.95	-.08	68.5	+ 4.1	93	7	80	34	25	57	34	49	58	1.72	- 1.5	5,039	se.	25	nw.	15	23	5	2	1.8	70.0	1881	60.4	1873		
Valentine.....	2,613	9	27.21	29.89	-.11	63.2	+ 2.8	98	3	79	21	25	48	46	40	51	0.68	- 1.3	7,370	s.	36	nw.	15	19	8	3	3.4	65.1	1891	58.4	1889		
Sioux City.....	1,165	...	29.70	29.91	...	65.7	...	95	6	79	29	25	52	40	47	51	1.11	- 1.1	6,878	se.	36	nw.	15	21	7	2	2.4	...	58.2	1889			
Pierre.....	1,470	...	28.33	29.88	...	65.2	...	99	7	80	27	25	51	41	48	54	0.78	...	7,102	s.	38	nw.	16	21	6	3	3.1	66.0	1881				
Huron.....	1,310	13	28.50	29.89	-.11	62.6	+ 3.5	102	7	79	18	27	46	51	40	54	0.23	- 1.3	10,381	se.	49	n.	28	21	6	3	2.5	...	55.5	1881			
Yankton.....	1,232	21	28.61	29.90	-.08	65.8	+ 2.9	98	6	80	26	25	52	37	44	55	0.90	- 2.0	5,926	se.	36	se.	20	22	5	3	2.5	68.3	1891	58.7	1876		
<i>Northern Slope.</i>																																	
Harve.....	2,477	14	27.26	29.85	-.11	54.7	+ 0.1	93	2	68	25	25	42	49	37	62	1.07	+ 0.5	7,015	w.	50	nw.	7	6	13	11	5.7	61.0	1888	50.2	1884		
Miles City #.....	2,374	16	27.35	29.81	...	60.0	+ 0.6	99	7	75	23	25	47	44	34	64	1.89	+ 1.2	5,725	nw.	22	nw.	20	11	7	2	4.1	69.4	1888	54.7	1884		
Helene.....	4,118	14	25.75	29.92	-.07	54.4	+ 2.0	96	2	65	30	23	41	40	37	62	2.69	+ 1.5	5,037	w.	38	sw.	7	8	6	16	6.1	62.0	1888	49.4	1884		
Rapid City.....	3,280	8	26.55	29.86	-.13	62.8	+ 2.1	96	3	77	25	25	49	48	34	42	62	0.08	- 0.7	7,037	w.	42	nw.	20	16	10	4	3.7	64.4	1888	58.2	1889	
Cheyenne.....	6,105	23	24.01	29.88	-.09	58.2	+ 1.5	84	7	73	26	25	44	38	33	44	57	0.29	- 0.6	5,494	nw.	38	sw.	21	22	7	1	2.5	...	51.8	1878		
Lander.....	5,377	...	24.60	29.92	...	51.9	...	84	3	73	21	22	37	51	29	47	47	0.29	...	4,153	sw.	48	n.	7	23	6	1	2.5	...	51.8	1878		
North Platte.....	2,841	19	27.04	29.94	-.07	64.4	+ 2.0	95	6	79	27	25	49	46	42	55	55	0.32	- 1.2	6,443	se.	32	s.	16	22	6	2	2.5	65.8	1891	59.8	1889	
<i>Middle Slope.</i>																																	
Colorado Springs.....	6,098	11	24.03	29.94	...	60.0	+ 0.8	84	12	74	35	25	46	40	31	41	41	0.21	- 1.0	2	6,460	n.	30	21	7	2	2.2	63.8	1891	56.7	1874		
Denver.....	5,287	22	24.74	29.89	...	63.4	+ 2.0	89	7	79	35	25	48	39	30	34	64	0.05	- 0.8	4,042	s.	30	20	2	2	2.3	66.0	1891	58.5	1878			
Pikes Peak.....	17	17.91	...																														
Pueblo.....	6	25.22	29.89	...																													
Concordia.....	4,734	6	25.22	29.89	...	65.0	...	83	14	72	38	11	48	44	43	58	3.47	+ 1.2	4,312	sw.	42	nw.	20	16	10	3	2.9	68.4	1884	58.2	1889		
Dodge City.....	2,440	9	28.47	29.93	-.09	70.4	+ 3.5	99	4	84	36	25	57	40	50	57	2.08	- 0.5	4,517	s.	29	s.	20	16	10	3	2.7	68.8	1891	62.6	1889		
Wichita.....	2,523	19	27.34	29.90	...	81.6	+ 2.0	107	26	98	54	27	52	43	47	60	1.74	+ 0.5	8,747	s.	41	se.	12	21	4	5	2.8	70.4	1891	64.1	1883		
Oklahoma City.....	1,239	...	28.68	29.90	...	74.4	+ 3.0	101	13	86	45	26	62	35	56	62	3.88	+ 0.3	6,140	s.	28	se.	29	23	4	3	1.9	...	59.7	1891			
<i>Southern Slope.</i>																																	
Abilene.....	1,748	8	28.17	29.94	-.07	79.3	+ 5.4	104	12	90	57	26	68	30	55	53	53	2.30	- 0.6	8,284	s.	38	ne.	24	21	4	2	2.7	79.3	1893	69.8	1889	
Amarillo.....	3,691	20	25.25	29.92	...	70.4	...	92	15	81	49	26	60	35	46	53	5.27	- 1.0	12,268	s.	48	s.	13	17	8	5	3.5	...	59.3	1891	54.4	*	
Fort Stanton.....	6,152	10	24.00	29.92	...	60.4	+ 0.6	83	14	73	38	11	48	44	43	58	3.47	+ 1.2	3,294	w.	30	sw.	13	12	7	11	4.8	63.0	1891	54.4	1884		
<i>Southern Plateau.</i>																																	
El Paso.....	3,766	16	26.18	29.93	-.01	74.2	+ 0.8	94	7	86	53	4	62	35	45	45	62	3.08	- 0.8	8	5,214	se.	38	se.	27	16	7						

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